



TV screen image / Imagen de la Pantalla del televisor/ Image de télévision © 2003 PhotoDisc, Inc.

Model No.:
No. de Modelo: **DS31820**
Nº de modele:

Color TV Owner's Manual
Color TV Manual Del Propietario
Manuel d'instructions du télécouleur

"Read this manual before assembling (or using) this product."

CONTENTS



"As an ENERGY STAR® Partner, Sanyo Manufacturing Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency."

Importado Por :
Comercializadora México
Americana, S. DE R.L. DE C.V.
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Code de service : 610 304 3876

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT. 
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THIS UNIT. 

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: PLEASE ADHERE TO ALL WARNINGS ON THE PRODUCT AND IN THE OPERATING INSTRUCTIONS. BEFORE OPERATING THE PRODUCT, PLEASE READ ALL OF THE SAFETY AND OPERATING INSTRUCTIONS. RETAIN THIS LITERATURE FOR REFERENCE. ***Follow all instructions...***

Positioning the appliance

1. Do not place your appliance on an unstable cart, stand, shelf or table. Serious injury to an individual, and damage to the appliance, may result if it should fall. Your salesperson can recommend approved carts and stands or shelf and wall mounting instructions. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
2. Slots and openings in the cabinet and in the back or bottom are provided for ventilation. To ensure reliable operation of the appliance and to protect it from overheating, these openings must not be blocked or covered. The openings should never be covered with a cloth or other material, and the bottom openings should not be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This appliance should never be placed near or over a radiator or heat register. This appliance should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
3. Do not expose the appliance to rain or use near water . . . for example, near a bathtub, swimming pool, kitchen sink, in a wet basement, etc.

Hooking Up Outdoor Antenna

LIGHTNING PROTECTION FOR YOUR ANTENNA AND SET AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS.

EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE, ANSI/NFPA 70

ANTENNA LEAD IN WIRE
GROUND CLAMP
ELECTRIC SERVICE EQUIPMENT
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
GROUND CLAMPS
GROUNDING CONDUCTORS (NEC SECTION 810-21)
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
NEC - NATIONAL ELECTRICAL CODE

"Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical."

4. If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

   An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

Plug in the power cord

5. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of this polarized plug. Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
6. Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

Cleaning

7. Before cleaning, unplug the unit from the wall outlet. Do not apply liquid cleaners or aerosol cleaners directly to the unit. Use a dry cloth for cleaning.

Service & Repair

8. Unplug the appliance from the wall outlet and refer servicing to qualified service personnel under the following conditions:
   A. If the power cord or plug is damaged or frayed.
   B. If liquid has been spilled into the appliance.
   C. If the appliance has been exposed to rain or water.
   D. If the appliance has been dropped or the cabinet has been damaged.
   E. If the appliance exhibits a distinct change in performance.
   F. If the appliance does not operate normally by following the operating instructions, adjust only those controls that are covered in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to normal operation.
9. Upon completion of any service or repair, request the service technician's assurance that only Factory Authorized Replacement Parts that have the same characteristics as the original parts were used, and that routine safety checks have been performed to determine that the appliance is in safe operating condition. Unauthorized substitutions may result in fire, electrical shock, or other hazards.
10. Never add accessories that have not been specifically designed for use with this appliance as they may cause hazards.
11. For added protection during a lightning storm, or when the set is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the set due to lightning or power line surges.
12. Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

Welcome to the World of Sanyo

Thank you for purchasing a Sanyo Color Television. You made an excellent choice for *Performance*, *Styling*, *Reliability,* and *Value*. The TV is designed with easy to use on-screen set-up instructions and operating features.
Need assistance? Visit our Web site at www.sanyoctv.com or call toll free 1-800-877-5032.

FEATURES

- Trilingual On-Screen Menu
- Automatic Channel Search
- Auto Shut Off
- Closed-Captioning/Quikcap
- 3-Line Digital Comb Filter
- Aspect Ratio settings
- Digital picture controls with on-screen display
- MTS stereo/dbx®/SAP Decoder
- Auto Flesh Tone
- Color Enhancer
- Factory preset adjustments for picture/sound
- Front Surround Sound
- Tone

- V-Guide (Parental Control)
- Picture-In-Picture (PIP)
- 480i Component AV Input Jacks
- Audio/Video In Jacks (2 sets, R/L)
- Audio Out Jacks (Fixed)
- S-Video In Jack
- Sleep Timer (3 hours)
- TV Reset

- **181 Channel Tuning System**
  VHF Channels 2-13
  UHF Channels 14-69
  Cable TV (CATV) 1, 14-125
- **Automatic Fine Tuning**
  VHF and Cable Channels

- **Backlit-Multimedia Remote Control**
  VCR/TV/CABLE/DVD/SAT/AUX
  Large Glow-in-the-Dark basic operating keys
  0~9 Numbered Channel Selection
  Channel Scanning

Volume	Mute
Power	Recall
Display	Sleep
Caption	Reset
Menu	V-Guide
Input	VCR/DVD keys
Enter	PIP keys

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SPECIFICATIONS

PICTURE TUBE SIZE
(Measured Diagonally) 31-inches

PICTURE RESOLUTION . . . . 330 Lines
Video Input . . . . 700 Lines

ANTENNA INPUT . . . . UHF/VHF/CATV 75Ω

POWER REQUIREMENT 120VAC 60Hz

POWER . . . . 89 watts

HORIZONTAL DIM. (Width) . . . . 29.7 in. (754mm)

VERTICAL DIM. (Height) . . . . 28.8 in. (732mm)

DEPTH DIM. (Thickness) . . . . 21.2 in. (538mm)

WEIGHT (Approx.) . . . . 106.4 lbs. (48.3 Kg.)

SOUND (2 Speakers) . . . . Size: 10 cm

AMPLIFIER . . . . Built-in with 1W/ch

AUDIO/VIDEO INPUT JACKS . . . . Video Input
Audio Input (2 sets, R/L)
S-Video Input

480i COMPONENT VIDEO
INPUT JACKS . . . . Digital Input (Y, Pb, Pr – R/L)

AUDIO OUTPUT JACKS . . . . Fixed, Audio Out (R/L)
(RCA Connectors)

CAUTION: FCC Regulations state that improper modifications or unauthorized changes to this unit may void the user’s authority to operate the unit.

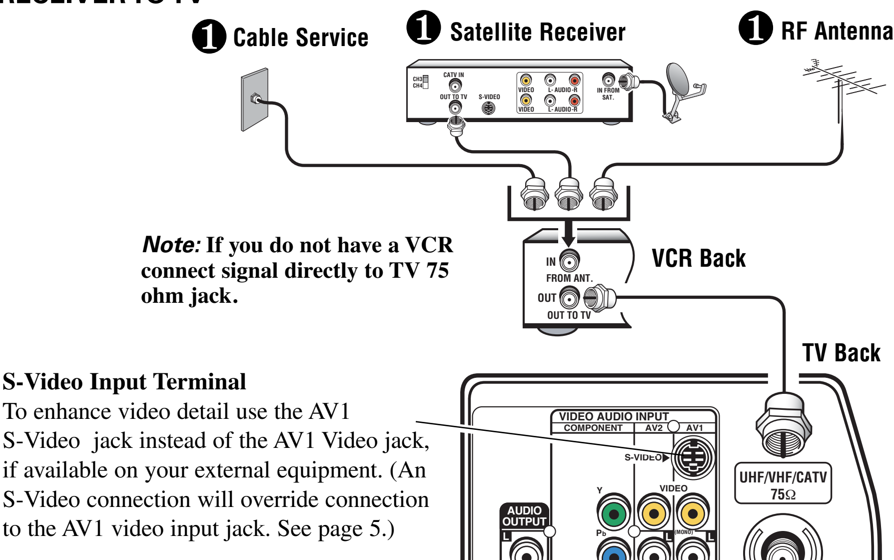
BASIC SET-UP AND CONNECTIONS

> ### QuickTips
> - *The TV will automatically select the correct Antenna mode for the type of RF signal you connect.*
> - *TV will switch off automatically after 15 minutes if there is no signal reception (cable out or station not broadcasting).*
>
> ***Exception**—When the Video mode is selected, the TV will not automatically switch off when signal reception has stopped for 15 minutes.*
> - *If you move the TV to a new location, press the RESET key twice after connecting the signal and turning on the TV.*
>
> **Need help?**
> Visit our Web site at
> **www.sanyoctv.com**
> or Call 1-800-877-5032

INITIAL SET-UP

1. Install batteries in remote control, see page 7.
2. Connect signal, see below.
3. Plug in AC power cord.
4. Press **POWER** key to turn on TV.
5. Follow on-screen instructions.

CONNECTING CABLE SERVICE, RF ANTENNA, OR SATELLITE DISH RECEIVER TO TV



Note: **If you do not have a VCR connect signal directly to TV 75 ohm jack.**

S-Video Input Terminal
To enhance video detail use the AV1 S-Video jack instead of the AV1 Video jack, if available on your external equipment. (An S-Video connection will override connection to the AV1 video input jack. See page 5.)

Audio Output Jacks
Connect external audio equipment here (see page 6).

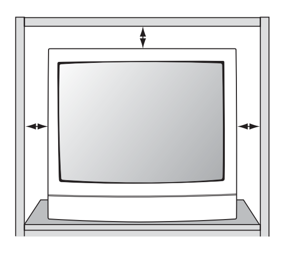
480i Component Video In Jacks (Component 2, Y, Pb, Pr)
Connect digital video equipment here (see page 6).

Audio/Video Input Jacks (AV1 / AV2)
Connect video equipment here (see pages 5 ~ 6).
Note: S-Video connection will override an AV1 video connection.

> CATV FRANCHISE NOTE: Cable companies, like public utilities, are franchised by local government authorities. To receive cable programs, even with equipment which is capable of receiving cable channels, the consumer must subscribe to the cable company's service.

POSITIONING THE TV

Do not position the TV in a confined area. Allow space for normal air circulation around electronic parts.



USING THE AUDIO/VIDEO INPUT JACKS

CONNECTING A VCR OR DVD PLAYER

Switch off TV and external equipment before connecting cables. (Cables are not supplied.)

❶ Connect VCR, DVD Player, or other equipment's Audio Video Out to the TV Audio Video Input.

For Mono VCR (Single Audio Jack) connect VCR Audio Out to TV Audio (L) Input.

① *Optional*

Connect DVD Player or other equipment's S-Video Out to the TV S-Video In Jack. Using the S-Video jack overrides the Video (AV1) jack.

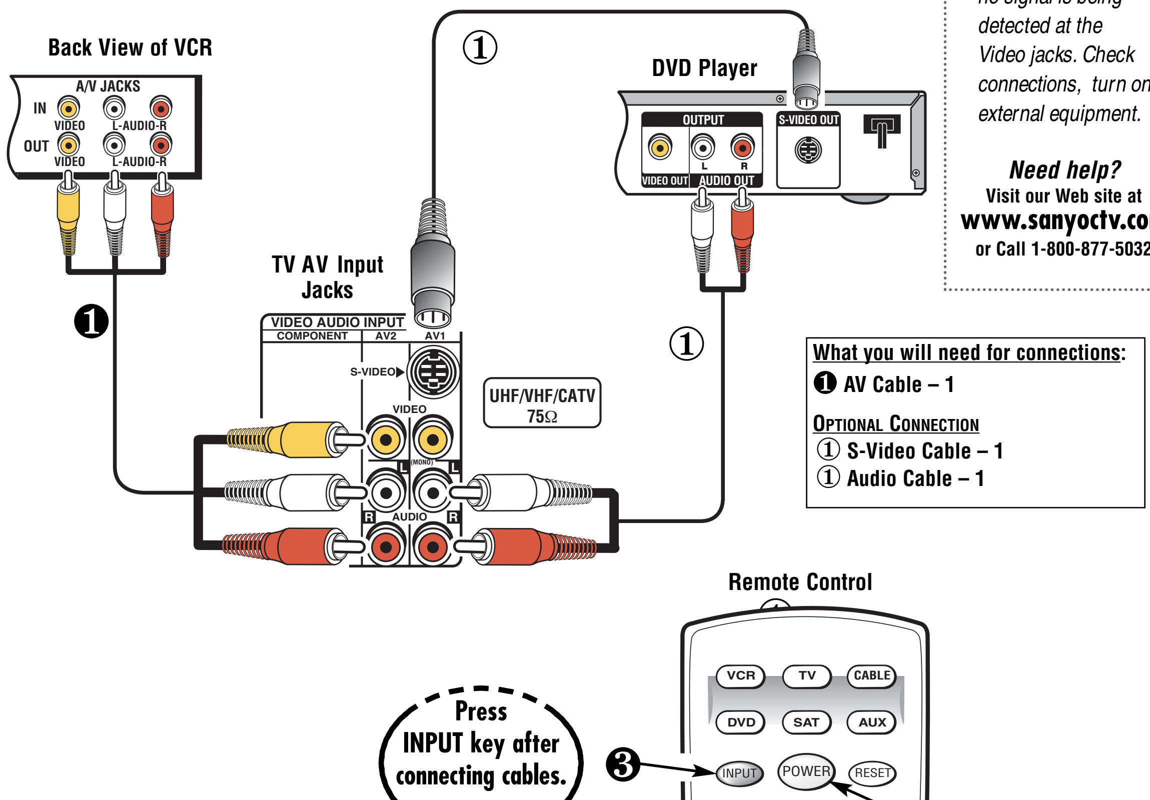
❷ Press **POWER** to turn on the TV. Turn on external equipment also.

❸ Press the **INPUT** key to select VIDEO1 or VIDEO2.

QuickTips

- *Make sure all cable connectors are fully seated on jacks.*
- *Always match A/V cables according to the colors; RED for right audio, WHITE for left audio and YELLOW for video.*
- *A solid Blue screen with the word VIDEO1 or VIDEO2, displayed means that the Video mode is selected, but no signal is being detected at the Video jacks. Check connections, turn on external equipment.*

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or Call 1-800-877-5032



USING THE COMPONENT AUDIO/VIDEO IN JACKS

QuickTips

- *You may be able to use the TV remote control to operate your DVD Player. (See pages 9~11.)*
- *A solid Blue screen with COMPONENT2 displayed means that the Video mode is selected, but no signal is being detected at the Component jacks. Check connection, and turn on external equipment.*
- *Position your TV at least 2 feet from stereo speakers. The magnets in the speakers may affect the picture quality.*

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or Call 1-800-877-5032

CONNECTING A DVD PLAYER OR OTHER DIGITAL EQUIPMENT

Switch off TV and external equipment before connecting cables. (Cables are not supplied.)

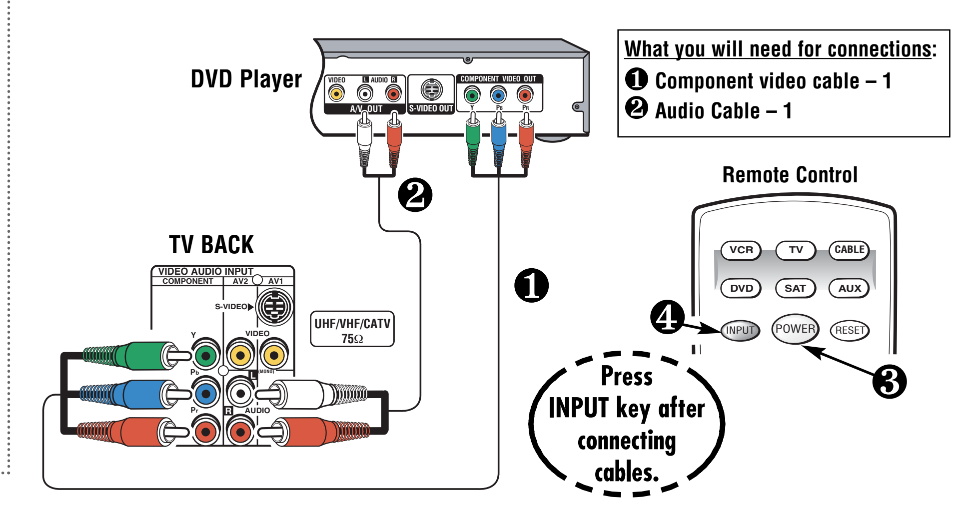
❶ Connect a DVD Player or other digital equipment's interlaced Component Video Out to the TV Component Video In (Y-Pb-Pr) Jacks.

❷ Connect the DVD Player's Audio Out to the TV A/V2 Audio In (L/R) Jacks.

❸ Press **POWER** to turn on the TV. Turn on external equipment also.

❹ Press the **INPUT** key to select COMPONENT2.

Note: DVD Player component output **<u>must</u>** be set to Interlaced (480i).



USING THE AUDIO OUTPUT JACKS

CONNECTING AUDIO OUT JACKS TO A STEREO AMPLIFIER

Switch off TV and external equipment before connecting cables. (Cables are not supplied.)

❶ Connect the TV Audio Out (R/L) to the Stereo Amplifier In (R/L).

❷ Press **POWER** to turn on the TV. Turn on external equipment also.

Note: DO NOT connect external speakers directly to the TV.

<u>What you will need for connections</u>:

❶ **Audio Cable – 1**

Back of TV

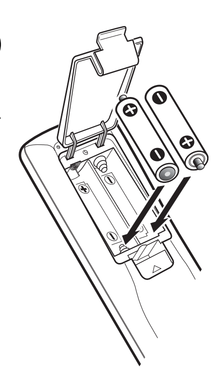
VIDEO AUDIO INPUT
COMPONENT
AV2
AV1
S-VIDEO
AUDIO OUTPUT
Y
VIDEO
AUDIO

Stereo Amplifier

USING THE MULTIMEDIA REMOTE CONTROL

Operates your TV, VCR, DVD Player, Cable converter box, and Satellite Receiver. To program the remote control, see pages 9 ~ 11.

INSTALL BATTERIES AS SHOWN (2 AA, not included)



Notes:

– Do not mix old batteries with new ones or mix different types of batteries together.

– Remove the batteries if the remote control will not be used for a month or more. Weak batteries may leak and cause damage. (Normal battery life is roughly six months.)

IMPORTANT NOTE: Spent or discharged batteries must be recycled or disposed of properly in compliance with all applicable laws. For detailed information, contact your local County Solid Waste Authority.

REMOTE CONTROL KEYS

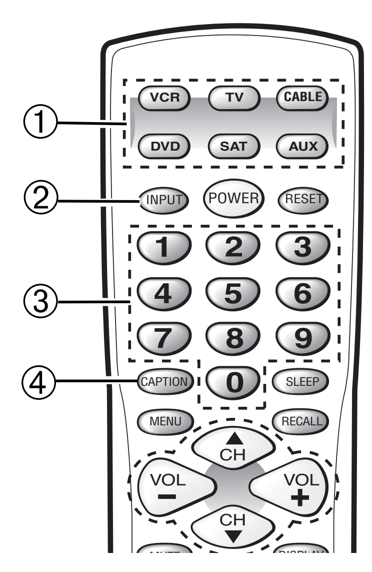
① **Mode Keys—**Use these keys to program the remote control and to select the operating mode (*VCR*, *TV*, *CABLE*, *DVD*, *SAT*, or *AUX*). **To Operate Your...** VCR—Press the **VCR** key;
Television—Press the **TV** key; Cable Box—Press the **CABLE** key; DVD Player—Press the **DVD** key; and Satellite Receiver—Press the **SAT** key.

Note: **Make sure you hold down the mode key while entering a code number, see page 9**.

② **Input Key—**In the TV and Satellite modes, this key selects the program source to display on the screen (TV signal or signal from equipment connected to the AV jacks). In the VCR mode, this key functions as a VCR's TV/VCR key.

③ **Number Keys—**Two keys must be pressed to select a channel. *Example*: Press **0** then **6** to select channel 6. For cable channels 100 through 125, press and hold the **1** key until C1–– appears. Then press the other two numbers.

④ **Caption Key**—See page 13.

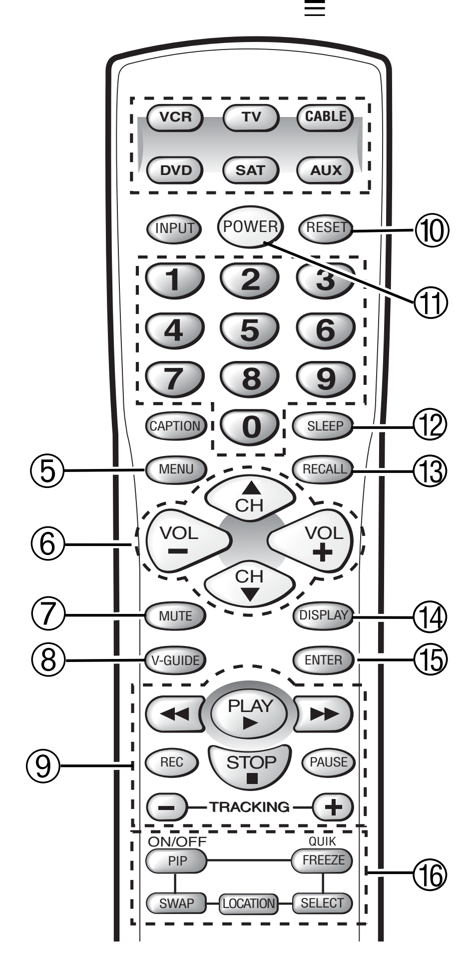


QuickTips

- *Be sure batteries are installed correctly.*
- *Point the remote control toward the equipment you want to operate. Objects between the remote control and the equipment may cause misoperation of the remote control function.*
- *If the remote control does not work: Press* **TV** *key (see item 1).*
- *The remote control must be programmed before it will operate your VCR, DVD Player, Satellite Receiver, or Cable Box. See pages 9~11. Note: Sanyo VCR and DVD codes are preprogrammed.*
- *Cannot select channel with number keys. Press "0" in front of numbers 1~9. Example: Channel 05.*
- *Adjusting the volume level: Flashing Right ▶ arrow indicates volume is increasing and flashing Left ◀ arrow indicates volume is decreasing.*

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(Continued on page 8.)



⑤ **Menu Key—**Use this key with the ▲/▼ and **– /+** keys to navigate and adjust features of the on-screen menu system (see pages 12 ~ 13).

⑥ **Channel Scanning (CH ▲/▼) and Volume (VOL – /+) Keys—**Press to scan through the channels in memory and to adjust the volume.

⑦ **Mute Key—**Press once to minimize the volume. Press again to restore.
Note: When using the audio out jacks this key *will not* mute the sound.

⑧ **V-Guide Key**—See pages 17 ~ 18.

⑨ **VCR/DVD Keys—**These keys control VCR or DVD functions for Fast Forward (▶▶), Rewind (◀◀), Play (▶), Record (REC), Stop (■), Tracking (–/+), and Pause.

⑩ **Reset Key—**Press this key **twice** to restore factory settings. The TV will automatically start Channel Search and clear all customized settings. These features will automatically reset:

- Picture/Sound Adjustments: Color, Tint, Contrast, Brightness, Sharpness, Color Enhancer, Tone, and Surround Sound
- Channel Memory
- Audio to Stereo
- Caption to OFF
- V-Guide to OFF
- Aspect Ratio to 4:3 (normal)
- PIP to OFF
- Menu Language to English
- Sleep Timer (if previously set)
- Video to TV (if previously set)

If desired, personal settings can be made again using the menu options.

⑪ **Power Key—**Press to turn TV on or off.

⑫ **Sleep Key—**Press this key, then press the “**0**” key to set the Sleep Timer. The desired time can be set from 30 minutes up to 3 hours in 30 minutes increments. Sleep Timer will switch off the TV automatically.
Note: The Sleep Timer cancels when the TV is turned off or if a power failure occurs.

⑬ **Recall Key—**Select a channel then select another channel using the number keys. Press **Recall** to switch between the channels.

⑭ **Display Key—**Press once to display the channel number. Press twice to display the channel number continuously. Press again to remove the display.

⑮ **Enter Key—**Use this key to activate menu selections on your DVD Player, Cable Box, Satellite Receiver, or VCR.

⑯ **PIP Keys—**See pages 14 ~ 16.

PROGRAMMING THE REMOTE CONTROL

❶ Find your VCR, Cable Box, DVD Player, and Satellite Receiver brand codes in the charts at the right and on page 10.

❷ Press and hold the **VCR, CABLE, DVD, SAT (Satellite Receiver),** or **AUX (Auxiliary)** mode key while entering a three-digit code number. Then release the mode key.

If the code was accepted, the mode key will flash *5 times* after it is released. If you entered an invalid code, the mode key *will not* flash. Check the code number and repeat Step 2.

The *VCR, Cable Box, DVD, and Satellite* modes will accept only each mode's specific code type.

The *AUX* mode will accept all code types, but only one code at a time.

Perform Steps 1 and 2 for each piece of equipment you have. After entering each code number check the unit's operation by pressing the **POWER** and/or **CHANNEL** keys. If these keys operate your equipment, you have probably entered the correct code number for that device. If not, follow Step 2 and enter another code, if available.

After you have programmed the remote control and confirmed its operation, enter your codes in the spaces provided below for easy reference.

VCR Code:			
Cable Box Code:			
DVD Player Code:			
Satellite Code:			
AUX ______________ LIST DEVICE HERE			

DVD CODES

BRAND NAME	CODES	BRAND NAME	CODES
Akai	529	Oritron	522
Apex	525, 527, 528, 523	Panasonic	501, 518
Daewoo	529	Philips	508, 502
Denon	501, 520	Pioneer	511, 505, 518
Emerson	521, 524, 527	Proscan	504
Fisher	500	RCA	504
GE	504	Samsung	512
Harman/Kardon	513	Sanyo	500, 526
Hitachi	530	Sharp	531, 517
JVC	515, 510	Sherwood	519
Kenwood	507	Sony	506
Magnavox	508, 502	Sylvania	524
Marantz	508	Symphonic	524
Mitsubishi	503	Technics	501
Onkyo	516, 502	Theta Digital	511
Optimus	511	Toshiba	502, 526
Orion	526	Yamaha	501, 509
		Zenith	521, 514, 502

SATELLITE RECEIVER CODES

BRAND NAME	CODES	BRAND NAME	CODES
AlphaStar	431	Next Level	415
Echostar	432, 410, 416	Optimus	430
ExpressVU	432	Panasonic	428, 400
Fujitsu	404	Philips	429, 430
GE	426, 436, 437, 423	Primestar	425, 427
General Instruments	425, 427, 415, 435, 405	Proscan	426, 436, 437, 423
Hitachi	407, 421	Radio Shack	415
HTS	432	RCA	426, 436, 437, 423
Hughes	407	Sony	420
Janeil	404	Star Choice	415, 435
Jerrold	425, 427	Toshiba	422, 405
JVC	432	Uniden	429, 430, 406, 409, 412
Magnavox	429, 430	Video Pall	404
Memorex	430	Viewstar	418
		Zenith	434, 404

VCR CODES

BRAND NAME	CODES
Admiral	234, 239, 243, 247, 224, 229, 222, 215
Adventura	228
Aiko	240, 205
Aiwa	228, 217
Akai	209, 215
America Action	205, 240
America High	232
Bell & Howell	203, 201
Broksonic	234, 243, 247, 227, 204
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Canon	232, 216
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Symphonic	228, 217, 233, 226, 202
Yamaha	238, 226
Tatung	226, 209
Teac	228, 209, 214, 217
Technics	232
Teknika	232, 223, 228, 216, 217
Toshiba	211, 240, 244, 202, 205, 210
Tomas	228, 217
Vector	211
Video Concept	211
Wards	230, 232, 239, 248, 223, 224, 228, 229, 221, 202, 204, 208, 211, 217
White	
Westinghouse	240, 243, 205
XR-1000	228, 232
Zenith	206, 215, 237, 243, 220, 223, 225, 228, 222

CABLE BOX CODES

BRAND NAME	CODES
ABC	312, 304, 306, 308, 309, 311, 313, 314, 318, 319, 321, 322, 323, 324, 327, 329
AIM	321
Archer	334
Bell & Howell	313, 314, 329
Contec	305, 302, 307, 308, 309, 311, 318, 319, 320, 322, 323, 324, 327
CPI	319, 308, 309, 311, 322, 323
Diamond	320
Eagle	313, 314, 329
Emerson	334
Gemini	334
General Instruments	303, 300, 308, 309, 311, 319, 320, 321, 322, 323
Goldstar	312
Goodmind	334
Hamlin	330, 320
Hitachi	309, 308, 311, 319, 322, 323
Hytex	318
Jerrold	300, 303, 308, 309, 311, 313, 314, 319, 320, 321, 322, 323, 329
Magnavox	325, 329, 301, 308, 309, 311, 313, 314, 319, 322, 323
Memorex	331, 332, 313, 314, 329
Motorola	338, 303, 300, 308, 309, 311, 319, 320, 321, 322, 323
Movie Time	306, 310, 314, 313, 329
Northcoast	316
NSC	305, 306, 314, 313, 329
Oak	305, 318, 320
Paragon	331, 313, 314, 329
Panasonic	331, 324, 302, 307, 317, 327
Philips	325, 329, 301, 308, 309, 311, 313, 314, 319, 322, 323
Pioneer	312, 327, 335, 333, 317, 324
Proscan	327
Quasar	331, 302, 307, 317
RCA	328, 302, 307
Regal	330, 307, 320
Rembrandt	305, 309, 308, 311, 319, 322, 323
Radio Shack	334
Samsung	312, 310
Scientific Atlanta	335, 327, 307, 324
Signal	310
Signature	300, 309, 308, 311, 319, 321, 322, 323
Sprucer	302, 307, 316
Starcom	332, 309, 308, 311, 319, 321, 322, 323
Stargate	309, 310, 311, 321, 322, 334
Teleview	310
Tocom	300, 303, 305, 304, 306, 307
Toshiba	331, 309, 308, 311, 316, 319, 322, 323
Unika	314, 313, 329
United Artists	318
United Cable	309, 308, 311, 319, 322, 323
U.S. Electronics	309, 308, 311, 319, 322, 323, 324, 327
Viewstar	326, 313, 315, 314, 329
Wards	321, 322, 308, 309, 311, 319, 323
Warner	312
Zenith	331, 336, 337, 308, 309, 311, 316, 319, 322, 323, 324, 327

MULTIMEDIA REMOTE CONTROL KEYS FUNCTIONS CHART

REMOTE KEYS	TV MODE	VCR MODE	CABLE MODE	DVD MODE	SATELLITE MODE
POWER	Turns Unit On/Off	Turns Unit On/Off	Turns Unit On/Off	Turns Unit On/Off	Turns Unit On/Off
NUMBER KEYS (0 ~ 9)	Used to Select Channels	Used to Select Channels	Used to Select Channels	No Function	Used to Select Channels
INPUT	Selects TV/Video mode	Selects TV/VCR mode	No Function	No Function	Selects TV/DSS mode
RECALL	Selects Previous Channel	Selects Previous Channel	Selects Previous Channel	Select Repeat Function	Selects Previous Channel
MENU	Displays Setup Menu	Displays Setup Menu	Displays Setup Menu	Displays Setup Menu	Displays Setup Menu
CHANNEL ▲ (UP)	Channel/Cursor* Up	Channel/Cursor* Up	Channel/Cursor* Up	Next/Cursor* Up	Channel/Cursor* Up
CHANNEL ▼ (DOWN)	Channel/Cursor* Down	Channel/Cursor* Down	Channel/Cursor* Down	Previous/Cursor* Down	Channel/Cursor* Down
VOLUME – (DOWN)	Audio Down/Cursor* Left	Audio Down/Cursor* Left	Audio Down/Cursor* Left	Audio Down/Cursor* Left	Audio Down/Cursor* Left
VOLUME + (UP)	Audio Up/Cursor* Right	Audio Up/Cursor* Right	Audio Up/Cursor* Right	Audio Up/Cursor* Right	Audio Up/Cursor* Right
MUTE	Switches TV sound Off/On	Switches TV sound Off/On	Switches TV sound Off/On	Switches TV sound Off/On	Switches TV sound Off/On
DISPLAY	Shows/Clears display	No Function	No Function	Zoom Function	No Function
RESET	Operates TV ONLY	No Function	No Function	No Function	No Function
CAPTION	Operates TV ONLY	No Function	No Function	Accesses Audio Options	No Function
SLEEP	Operates TV ONLY	No Function	No Function	No Function	No Function
V-GUIDE	Operates TV ONLY	No Function	No Function	No Function	No Function
ENTER	Makes Selection	Makes Selection	Makes Selection	Makes Selection	Makes Selection
PLAY (▶)	Selects VCR/DVD Play	Selects VCR Play	Selects VCR/DVD Play	Selects DVD Play	Selects VCR/DVD Play
FAST FORWARD (▶▶)	Operates VCR/DVD	Operates VCR	Operates VCR/DVD	Operates DVD	Operates VCR/DVD
REWIND (◀◀)	Operates VCR/DVD	Operates VCR	Operates VCR/DVD	Operates DVD	Operates VCR/DVD
STOP (■)	Selects VCR/DVD Stop	Selects VCR Stop	Selects VCR/DVD Stop	Selects DVD Stop	Selects VCR/DVD Stop
PAUSE	Selects VCR/DVD Pause	Selects VCR Pause	Selects VCR/DVD Pause	Selects DVD Pause	Selects VCR/DVD Pause
RECORD (REC)	No Function	Selects VCR Record	No Function	No Function	No Function
TRACKING – / +	Adjusts VCR Head Tacking	Adjusts VCR Head Tacking	Adjusts VCR Head Tacking	Still Frame Step Fwd/Rev	Adjusts VCR Head Tacking
MODE KEYS	Press these keys (VCR/TV/CABLE/DVD/SAT/AUX) when programming the remote control and to choose an operating mode.				

Notes:

– Many of the keys on this remote control are multi-functional. Please refer to the chart for a generic description of the keys and their functions. Refer to your original operating manuals for specific feature operation.

– This remote control cannot add keys or features to your equipment. Your equipment's manufacturer must have originally provided them.

– The **CHANNEL** (▲/▼) and **VOLUME** (–/+) keys become **CURSOR** keys when the **MENU** key is pressed. This operating state remains active for 10 seconds after pressing the **MENU** key or either of the **CHANNEL** or **VOLUME** keys. After 10 seconds, these keys will revert to normal channel and volume operation.

– Some equipment brands use the **CHANNEL** and **VOLUME** keys instead of **CURSOR** keys to navigate through their menu system. If, after pressing the **MENU** key, the **CHANNEL** and **VOLUME** keys do not move the cursor, wait 10 seconds then try them again. If the menu leaves the screen, press the **MENU** key again then wait 10 seconds before pressing the **CHANNEL** and **VOLUME** keys.

– Operations in the chart that are marked with an asterisk (*) work when the menu is displayed (after pressing the **MENU** key).

– The *AUX* mode can be programmed to operate a, DVD Player, Cable Box, Satellite Receiver, or second VCR, but only one device at a time.

TV ADJUSTMENT AND SETUP



- *The menu will display on the screen for approximately 20 seconds. Press* **MENU** *again to redisplay.*
- *Under weak stereo signal conditions, you may receive better quality sound in the "Mono" position.*
- *To expand your viewing experience select Sports, Movie, or News to match the program you are watching.*
- *Use the Color Enhancer feature to highlight the picture flesh tones and color highlights. Selecting warm will deepen the picture red tints and cool will highlight the picture blue tints.*
- *Surround sound will be automatically on when Sports or Movie is selected. Surround expands the sound effect while receiving MTS stereo signals.*
- *When setting the Antenna mode, choose Cable if your TV is connected to a cable system, otherwise choose VHF/UHF.*

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or Call 1-800-877-5032

The on-screen menu provides the viewer with easy access to adjustments and settings. Just use the keys on the remote control and follow the on-screen instructions.

HOW TO OPERATE THE ON-SCREEN MENU

1. Press the **MENU** key.
2. Use the ▲/▼ keys to *highlight* the desired feature.
3. Use the **–** /**+** keys to choose desired option. (➧ indicates selected item.)
4. Press the **MENU** key to exit.

Items with submenus requires additional steps.



SETTING AUDIO MODE

Select desired sound setting, Stereo, Mono, or SAP (secondary audio program).

Note: Stereo and SAP must be part of the broadcast signal.

1. Choose Stereo, Mono, or SAP from the Audio options.

Note: The TV will automatically reset to stereo if unplugged or a power failure occurs.



ADJUSTING PICTURE/SOUND

For automatic picture/sound adjustment

Choose Sports, Movie, or News from the Picture/Sound options.

▲▼ keys – + keys
Audio
Picture/Sound Sports Movie
News ➧Manual

Adjust the picture/sound manually

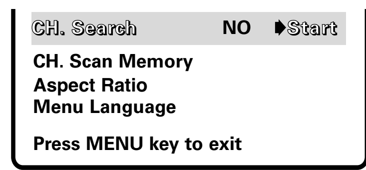
1. Choose Manual from the Picture/Sound options.
2. Press the **MENU** key to open the picture/sound settings submenu.
3. Use the ▲/▼ keys to highlight the picture or sound setting you want to change.
4. Use the **–** /**+** keys to adjust settings.

▲▼ keys – + keys
Color
Tint
Contrast
Brightness
Sharpness
Color Enhancer Normal ➧Warm
Cool
Tone L----■IIIIIIIH
Surround OFF ➧ON
Press MENU key to exit

RESETTING THE ANTENNA/CABLE MODE AND CHANNEL SEARCH

Resetting the Antenna/Cable Mode or CH. (Channel) Search is required *only* if additional channels become available, such as moving to another city or having a cable service installed.

1. Choose Start from the Ch. Search menu options.



ADDING OR DELETING CHANNELS

1. Press the **MENU** key.
2. Use the ▲/▼ keys to highlight **CH. Scan Memory**.
3. Press the **+** key to highlight channel number entry area.
4. Enter the channel number you want to add or delete (example): C34. For cable channels above 99, press and hold the **1** key until C1– – appears. Then enter the other two numbers.
5. Press the **+** key to change the present setting. Example: Added will change to Deleted. This takes about three seconds. During that time, the word “Added” or “Deleted” will become yellow.
6. Use the 0~9 or ▲▼ keys to choose other channels to delete or add, or press the **MENU** key to exit.

CH. Scan Memory C 34 Deleted
Aspect Ratio
Menu Language
Select channel using △▽, 0~9 keys
Press MENU key to exit

ASPECT RATIO

Use this feature when digital equipment is connected to the component input jacks. The 4:3 setting is for normal viewing. The 16:9 setting changes the picture image to widescreen viewing with minimal portion of top and bottom compressed.

1. Press the **MENU** key.
2. Use the ▲/▼ keys to highlight Aspect Ratio.
3. Press the **– /+** keys to select 4:3 or 16:9.

Aspect Ratio ▶4:3 **16:9**
Menu Language
Press MENU key to exit

CLOSED-CAPTIONING CC

Captioning is text information transmitted along with the picture and sound so it can be displayed on the TV screen. Because different types of captions can be transmitted with the TV signal, separate captioning modes are provided. The captioning modes recognized by this model are: Caption1, Caption2, Text1, and Text2. Local broadcasters decide which caption signals to transmit.

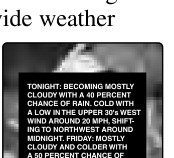
CAPTION1: This is the main mode used for program captioning (words match the program you are watching). These captions are generally one or two lines.

CAPTION2: This is an alternative mode for program captioning. Caption2 may be used by the broadcaster to provide captions in another language, such as, Spanish or French.

Caption1/ 2

TEXT1: This mode is used to display large amounts of text. This text will appear within a black box that may be nearly as large as the TV screen. Text displayed in this manner does not generally relate to the program. These captions may be used by broadcasters to provide weather reports, community bulletins, etc.

TEXT2: This is an alternative mode used to display large amounts of text (same as Text1).



Text1/ 2

QUIKCAP: Quikcap allows captions to toggle on and off with the Mute function. Press the **MUTE** key on the remote control to block the TV sound; the captions display automatically. Press the **MUTE** key again to restore the sound, the captions will disappear. Quikcap displays program captions in the Caption1 mode.

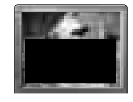
SETTING CAPTIONS

1. Press the **CAPTION** key on the remote control.
2. ~~Press the **0** key to select options: OFF, CAPTION1, CAPTION2, TEXT1, TEXT2, or QUIKCAP.~~

QuickTips

- *Channels deleted from scan memory can be selected with the number keys.*
- *Restoring deleted channels, use the on-screen menu to manually add channels or start CH. (Channel) Search from the menu. It may take a few minutes to search thru the available channels.*

  OR
- *Press the **RESET** key twice.*
- *If Caption Text mode is selected and **NO** captioned text is broadcasted, a black box may appear and remain on the TV screen as shown below.*



*To remove this black box, set captioning to any mode other than Text1 or Text2 or press the **RESET** key to cancel captioning and other customized settings.*

- *Channel number will not display continuously when captioning is on.*

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Visit our Web site at
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or Call 1-800-877-5032

PICTURE-IN-PICTURE (PIP) OPERATION

QuickTips

- *PIP window is black with no picture:*
1. *Check cable or antenna connections.*
2. *Make sure VCR is turned on.*
3. *Select another channel on your VCR.*
- *Same picture appears in Big and Small windows. Set VCR to TV mode.*

PIP KEYS:

- *Use the* **SWAP** *key to exchange programs between the windows.*
- *Use the* **LOCATION** *key to change the position of the small window (Top: L/R or Bottom: L/R).*
- *Use the* **QUIK FREEZE** *key to stop the action. Use this feature to hold an advertised phone number or address on the screen until you collects the information.*
- *Use the* **SELECT** *key to choose the PIP video source (Video1 or Video2, or TV RF signal).*

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Visit our Web site at
www.sanyoctv.com
or Call 1-800-877-5032

For PIP to function you *must* connect two signals to the TV. (Use the TV's 75 ohm input and AV inputs.) Connect VCR (or other accessory equipped with a video output jack) to the TV's audio video jacks as shown at the right and on page 15 or 16. If you are using a satellite dish, you **must** connect a cable system or antenna also to use the PIP feature (see page 15). For operation with Cable Box, see connection on page 16.

BASIC PIP OPERATION

(Connect signal first.)

Note: The following steps correspond to numbers on the Remote Control art below.

❶ Switch TV and VCR ON.

❷ Press **PIP ON/OFF** key. Set VCR to TV mode, if necessary.

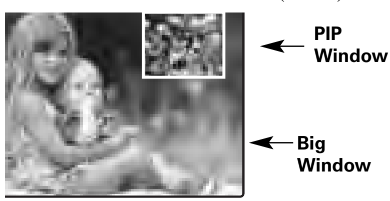
❸ or ❻ Select channel for big window.

❹ Press **SELECT** key to choose Video1 or Video2 signal.

❺ Press **VCR** key.

Note: If the remote control cannot be programmed to operate your VCR, you *must* use the VCR's remote to perform VCR functions.

❻ or ❸ Select channel on VCR for PIP (small) window.



❼ To change the position of the PIP window, press the **LOCATION** key.

Notes:

– The PIP channel number will always appear in the upper left hand corner regardless of the PIP window location.

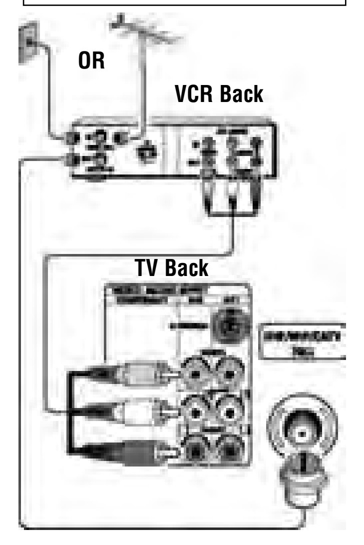
Video 1 C30

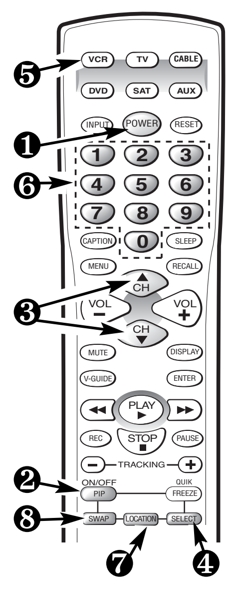
– PIP cannot be used with the component input jacks. Switching to component input with PIP active will automatically switch PIP off.

❽ Press **SWAP** key to view PIP image in big window.

BASIC PIP CONNECTION

What you will need for connections:
AV Cable – 1
RF Cable – 1





CONNECTING A SATELLITE SYSTEM, VCR, AND ANTENNA TO THE TV FOR PIP OPERATION

Cables are not supplied.

❶ Connect an antenna signal to the TV 75Ω (ohm) terminal.

❷ Connect Satellite S-Video Out to TV S-Video In jack. Using the S-Video In jack overrides the Video Input jack. Connect the Satellite Audio Out (R/L) jacks to TV Audio Input (R/L) Jack (AV1) jacks.

❸ Connect the VCR Audio/Video out jacks to the TV Audio/Video AV2 In jacks.

❹ Connect RF cable from the Satellite Receiver "Out to TV" to the VCR "In from ant."

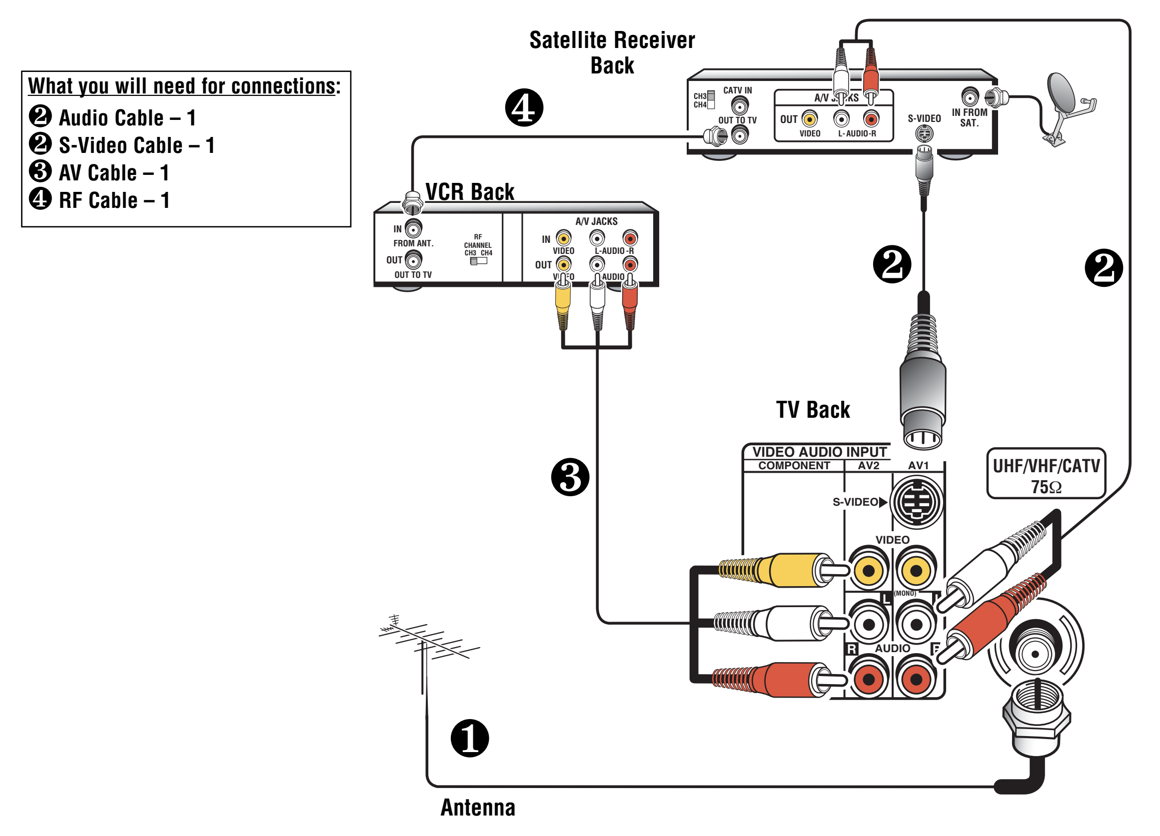
❺ Press **POWER** key to turn on the TV. Turn on external equipment.

TO USE PIP:

1. Press **PIP** key to display PIP window.
2. Press the **SELECT** key to select Video1 or Video2 for the PIP window.
3. Refer to page 14 to operate PIP, if needed.

Notes: – **PIP feature will not function with just the satellite system, you must connect another signal source such an antenna.**

– **This connection allows you to use your VCR to record a signal from the Satellite Receiver.**



PIP Satellite Hookup

CONNECTING A CABLE BOX AND VCR TO THE TV FOR PIP OPERATION

Cables are not supplied.

❶ Connect Cable system signal to a signal splitter.

❷ Connect RF cable from splitter to the TV 75 ohm input jack.

❸ Connect RF cable from splitter to the Cable Box In.

❹ Connect RF cable from the Cable Box out to the VCR "In from ant."

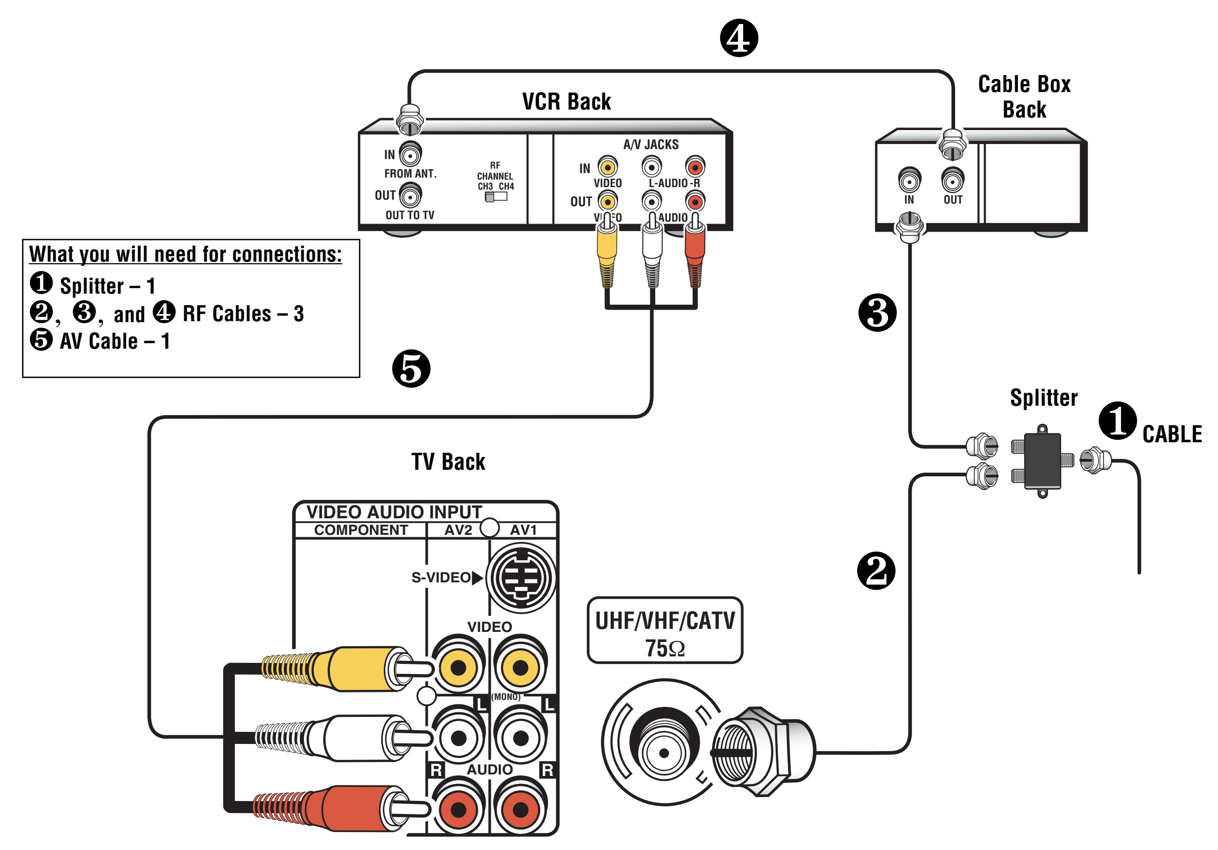
❺ Connect VCR's Audio Out (R/L) and Video Out to the TV Audio Input (R/L) and Video Input jacks.

❻ Press **POWER** key to turn on the TV. Turn on external equipment.

TO USE PIP:

1. Press **PIP ON/OFF** key.
2. Press the **SELECT** key to select Video1 or Video2 for the PIP window.
3. Refer to page 14 to operate PIP, if needed.

Note: **PIP feature will only function with a Cable Box system by using a splitter. Also, this connection enables you to view premium channels while using the PIP feature.**



PIP Cable Box Hookup

V-GUIDE (PARENTAL CONTROL) INFORMATION

NOTE: THIS FEATURE IS DESIGNED TO COMPLY WITH THE UNITED STATES OF AMERICA'S FCC V-CHIP REGULATIONS. THEREFORE, IT MAY NOT FUNCTION WITH BROADCASTS THAT ORIGINATE IN OTHER COUNTRIES.

This Sanyo television is equipped with an electronic V-Chip to interpret MPAA and TV Parental Guidelines rating codes. When these codes are detected, the TV will automatically display or block the program, depending upon choices you make when setting up the V-Guide system.

ABOUT MPAA AND TV PARENTAL GUIDELINES

MPAA and TV Parental Guidelines are rating systems that provide advance cautionary information to parents about the content of movie and television programming.

The V-Guide system contain both age-based and content-based settings. This gives parents discretionary ways of choosing appropriate material for their children to view.

Content ratings are represented by the initials D (Suggestive Dialog), L (Adult Language), S (Sexual Situations), V (Violence), and FV (Fantasy Violence). When programming contains any or all of these conditions, these letters become part of the icon that is displayed on the TV screen.



A rating icon will generally appear in the upper left hand corner of the TV screen for about fifteen seconds at the beginning of a program and should be repeated at the beginning of the second hour of a long program. It may also appear when returning from commercials. There may be other instances when these icons will be displayed as well. Parents are encouraged to become familiar with these icons and their meanings.

QuickTips

- *Use the* CHANNEL ▲ / ▼ *keys and the* VOLUME **– /+** *keys to navigate through the menus and to make selections from the menus.*
- *V-Guide feature is accessible only from the remote control.*
- *The TV guidelines rating icon will appear generally in the upper left hand corner of your TV screen.*
- *The V-Guide display remains on screen for approximately 20 seconds. If it disappears, press the* V-GUIDE *key.*

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Visit our Web site at
www.sanyoctv.com
or Call 1-800-877-5032

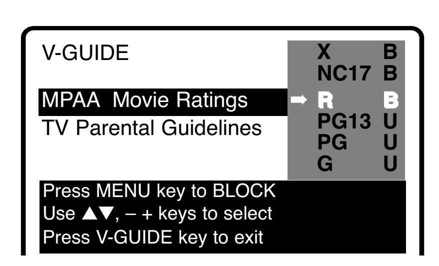
V-GUIDE OPERATION

Use this feature to supervise television viewing for young children. This television can be set to automatically block programs with content you deem as inappropriate for your children to view, including: suggestive dialog, adult language, sexual situations, violence, and fantasy violence.

The ability of the television to block the reception of specific programming content depends upon several conditions: 1) The program must be rated, 2) Networks must broadcast the rating code data, 3) Cable companies must transmit the rating code signal, and 4) The TV must be properly setup to decode the signal.

SETTING MPAA MOVIE RATING

1. Press the **V-GUIDE** key on the remote control to display menu.
2. Press the **+** key to switch V-Guide ON.
3. Press the **+** key again. Then use the ▲ / ▼ keys to highlight rating.
4. Press the **MENU** key to Block (B) or Unblock (U) selected rating. (➡ Arrow indicates selection.)
5. Press the **–** key to return to the V-Guide Options menu.



(Continued on page 18.)



- *When in the V-Guide menu system, the* **– /+** *keys allow you to navigate between the ratings and the options menu.*
- *The TV will automatically block (B) ratings above or unblock (U) ratings below selection. For example, if you block rating R, NC17 and X will be blocked as well.*
- *Blocking TVY7 does not block higher ratings.*
- *You can block a content rating such as TVPG-V and still be able to watch TVPG programs with ratings of S-L-D provided TVPG is unblocked (U).*
- *To temporarily unblock or view Blocked (B) programs, set V-GUIDE to OFF, or press the* RESET *key twice to clear all Blocked (B) ratings and other customized settings.*

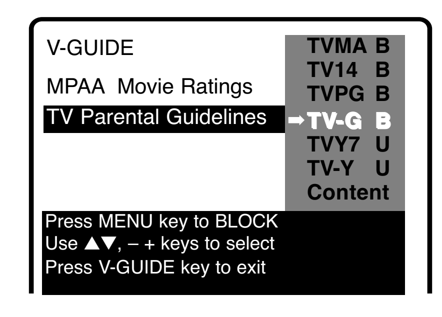
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SETTING TV PARENTAL GUIDELINES

6. Use the ▲ / ▼ keys to highlight TV Parental Guidelines.

7. Press the **+** key. Then use the ▲ / ▼ keys to highlight rating.

8. Press the **MENU** key to Block (B) or Unblock (U) selected rating. (➡ Arrow indicates selection.)



SETTING CONTENT-BASED GUIDELINES

9. Follow steps 6 and 7. Use the ▲ / ▼ keys to highlight Content.

10. Press the **MENU** key to display the Content Option menu.

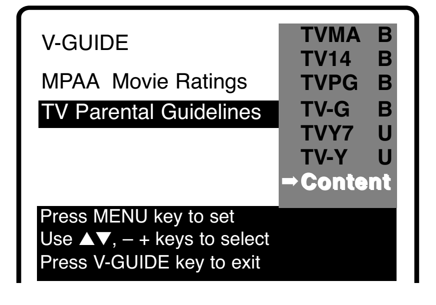
11. Use the ▲ / ▼ keys to highlight a category (D-Suggestive Dialog, L-Adult Language, S-Sexual Situations, V-Violence, FV-Fantasy Violence).

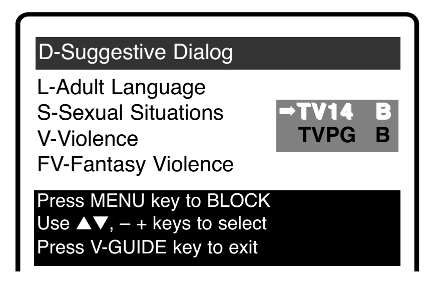
12. Press the **+** key. Then use the ▲ / ▼ keys to highlight a rating.

13. Press the **MENU** key to Block (B) or Unblock (U) selected rating. (➡ Arrow indicates selection.)

14. Press the **V-GUIDE** key to exit; or press the **–** key to return to the Content Options menu.

15. Repeat steps 11 through 13 to Block (B) or Unblock (U) additional content ratings, if desired.





Note: Networks and local stations may or may not include the content ratings portion of the TV Parental Guidelines.

TURNING OFF THE V-GUIDE

1. Press the **V-GUIDE** key.

2. Use the **– /+** keys to select OFF.

CARE AND CLEANING

The surface of the cabinet can be damaged if not properly maintained. Many common household aerosol sprays, cleaning agents, solvents, and polishes will cause permanent damage to the fine surface.

1. Unplug the power cord before cleaning the television.

2. Clean the screen and cabinet with a soft dry cloth.



Note: *Never* spray liquids on the screen because it can run down and drip onto the chassis. This may cause component failure not covered under Warranty.

HELPFUL HINTS (Problems/Solutions)

Before calling for assistance, please check the condition that most closely resembles your problem in the following chart, then try the solutions for that condition. Visit our Web site at www.sanyoctv.com or call toll free 1-800-877-5032.

Problem:	Check these Conditions:	Try these Solutions:
TV turns off automatically.	• Check signal (Cable/Ant.) connection. • Power surge protection feature.	• Press **POWER** key. • The sleep timer may have been set. • Unplug TV momentarily.
No picture, poor picture, or wavy lines in picture.	• Check antenna connections. • May be station trouble. • Brightness or Contrast misadjusted. • Possible interference from household appliance.	• Adjust antenna. • Try a different channel. • Press **RESET** key. • Turn off Mixer, Drill, Blender, etc.
Black box on screen.	• Caption Text Mode without display information.	• Press **RESET** key twice. • Switch OFF Captions (see page 13).
Poor color or no color.	• Check if program is in color. • Check antenna connections. • Color or Tint misadjusted. • May be station trouble.	• Try a different channel. • Adjust antenna. • Press **RESET** key twice.
Blue Screen with Video1, Video2, or Component2 displayed.	• Check Audio/Video connections. • Check external equipment connections. • Check DVD setting.	• Press **INPUT** key. • Switch on external equipment. • Set DVD component output to interlaced.
No sound, poor sound. No sound on some channels.	• May be station trouble. • May be MUTE function. • Check Audio/Video connections.	• Try a different channel. • Adjust Volume. • Press **RESET** key twice.
No TV stereo sound.	• Check if station is broadcasting a true MTS stereo signal.	• Select **Stereo** from Audio on-screen menu.
No TV SAP sound	• Check if station is broadcasting a SAP signal.	• Select **SAP** from Audio on-screen menu.
No Cable channels above number 13.	• Cable Channel Indicator **C** should appear next to channel number.	• Select **Cable** from Antenna on-screen menu; then start CH. (channel) Search using the menu.
No UHF channels, VHF OK.	• Cable Channel Indicator **C** should **not** appear next to channel number.	• Select **VHF/UHF** from Antenna on-screen menu; then start CH. (channel) Search using the menu.
Cannot select or scan some channels.	• Channel may be removed from memory. • Check antenna connections. • V-Guide is set to block programming (see pages 17 ~ 18).	• Select **CH. Scan Memory** and manually add channels or start CH. (channel) search. • Press **RESET** key to clear setting. • Set V-Guide to OFF or press **RESET** key.
No Captioning.	• Check if station is broadcasting a Closed-Caption signal. Select another channel.	• Select **Caption1** or **Caption2** (see page 13).
Menu System words seem misspelled	• May be a different language is selected.	• Reselect menu language choice using the on-screen menu or press **RESET** key.
Remote Control will not work TV.	• Check batteries, then see if TV is plugged in. • Press **TV** key.	• Replace batteries. • Aim remote control at front of TV.
Remote Control will not operate VCR, Cable Box, DVD, and Satellite Receiver.	• Press **VCR, CABLE, DVD, SAT,** or **AUX** key. • Check external equipment.	• Re-enter brand code (see pages 9 ~ 11).
Cabinet makes popping sound.	• This is a normal condition during warm-up and cool down of the plastic cabinet parts.	

MEXICO GUARANTEE

IMPORTADOR:
COMERCIALIZADORA MEXICO
AMERICANA, S.DE R.L. DE C.V.
AV. NEXTENGO Nº 78
COL. SANTA CRUZ ACAYUCAN
DEL. AZCAPOTZALCO, MÉXICO, C.P. 02770
RFC: CMA9109119L0

DESCRIPTION: Television
BRAND: SANYO
MODEL: DS31820

GUARANTEE

THE APPARATUS THAT YOU HAVE ACQUIRED HAS A ONE YEAR GUARANTEE FOR MANUFACTURING DEFECTS AND A ONE YEAR SERVICE WARRANTY FROM THE DATE OF PURCHASE GRANTED BY:

COMERCIALIZADORA MEXICO-AMERICANA, S. DE R.L. DE C.V.

UNDER THE FOLLOWING CONDITIONS:

1. TO MAKE THE GUARANTEE EFFECTIVE, SIMPLY SHOW THIS POLICY FILLED OUT BY THE STORE OR SUPPLIER UNIT OR THIS SALES INVOICE, WITH THE APPARATUS IN ANY OF THE SERVICE CENTERS INDICATED ON THIS GUARANTEE.
2. IF THE FAULT IS ATTRIBUTED TO A MANUFACTURING DEFECT, THE APPARATUS WILL BE REPLACED OR YOUR MONEY REFUNDED. DURING THE 30 DAYS SUBSEQUENT TO THE PURCHASE THE GUARANTEE WILL BE VALID AT THE STORE WERE THE APPARATUS WAS PURCHASED, PRESENTING THE ABOVE DOCUMENTS.
3. REPAIR TIME WILL NEVER BE MORE THAN 30 DAYS. IF THIS TIME HAS ELAPSED, AND THE PRODUCT ISN'T REPAIRED, COMERCIALIZADORA MEXICO AMERICANA, S. DE R.L. DE C.V. WILL PROCEED TO EFFECTUATE THE EXCHANGE FOR AN EQUIVALENT APPARATUS OR THE RETURN OF THE BUYING-SALE COST RESPECTIVELY.
4. THIS GUARANTEE WILL COVER ITS TOTALITY OF PIECES, COMPONENTS AND SERVICE REPAIR OF PRODUCT, AND THE RESPECTIVE COST OF TRANSPORTATION.

<u>THIS GUARANTEE WILL BE NULL AND VOID IN THE FOLLOWING CIRCUMSTANCES</u>:

* WHEN PRODUCT HAS BEEN USED IN A DIFFERENT CONDITION THAN ITS NORMAL USE.
* WHEN PRODUCT HASN'T BEEN OPERATING CORRECTLY ACCORDING TO THE INSTRUCTIONS IN THIS MANUAL.
* WHEN PRODUCT HAS BEEN CHANGED OR REPAIRED BY PERSONS NOT AUTHORIZED FROM THE MANUFACTURER, IMPORTER, OR MERCHANT RESPONSIBLE RESPECTIVE.

CENTRO DE SERVICIO Y LUGAR DONDE OBTENER PARTES, COMPONENTES, CONSUMIBLES Y ACCESORIOS:

SUCURSAL VALLEJO
Poniente 126 Nº 288 B
Col. Nueva Vallejo
México, D.F.
Tels. 5567-5378
5368-0105, 8589-8033

SUCURSAL MINERVA
Silos Nº 135, Col. Minerva
Deleg. Iztapalapa
México, D.F. 09810
Tels. 5646-4551
5646-4550

STAMP, DATE AND SIGNATURE OF STORE

DESCRIPTION: ______________________ **BRAND:** ______________ **MODEL:**______________
CLIENT'S NAME: ____
ADDRESS: ____
EXTERIOR NUMBER: ________________ INTERIOR NUMBER: ________________
SUB DIVISION: ______________________________ STATE/DELEGATION: ________________
TELEPHONE: ______________________________

United States and Canada Warranty

ONE-YEAR LIMITED WARRANTY

THIS LIMITED WARRANTY IS VALID ONLY ON SANYO TELEVISIONS PURCHASED AND USED IN THE UNITED STATES OF AMERICA, CANADA, AND PUERTO RICO, EXCLUDING THE UNITED STATES' OTHER TERRITORIES AND PROTECTORATES. THIS LIMITED WARRANTY APPLIES ONLY TO THE ORIGINAL PURCHASER, AND DOES NOT APPLY TO PRODUCTS USED FOR INDUSTRIAL OR COMMERCIAL PURPOSES.

FOR ONE YEAR from the date of purchase, Sanyo Manufacturing Corporation will replace any defective TV.

To insure proper warranty exchange, keep the original sales receipt for evidence of purchase. Return the defective TV to the retailer along with the receipt and the included accessories, such as the remote control. The defective TV will be exchanged for the same model, or a replacement model of equal value, if necessary. Replacement model will be contingent on availability and at the sole discretion of Sanyo Manufacturing Corporation.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

OBLIGATIONS

For one year from the date of purchase, Sanyo Manufacturing Corporation warrants this product to be free from defects in material and workmanship under normal use and conditions. Should replacement be necessary under this warranty for any reason due to manufacturing defect or malfunction during the first year from date of original purchase, Sanyo Manufacturing Corporation will provide a new TV via exchange at the retailer.

For customer assistance, whether during or out of the warranty period, call toll free 1-800-877-5032.

Weekdays 7:30 AM – 7:00 PM Central Time

Saturday 7:30 AM – 4:00 PM Central Time

This warranty expresses specific contractual rights; retail purchasers may have additional statutory rights which vary from state to state.

(EFFECTIVE: August 1, 2002)

For your protection in the event of theft or loss of this product, please fill in the information requested below and **KEEP** IN A SAFE PLACE FOR YOUR OWN PERSONAL RECORDS.

Model No.________________________________ Date of Purchase __________________________

Serial No.________________________________ Purchase Price ____________________________

(Located on back of unit) Where Purchased__________________________



Sanyo Manufacturing Corp.
3333 Sanyo Road, Forrest City, AR 72335

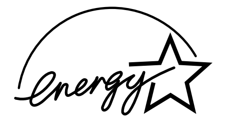


This symbol on the nameplate means the product is Listed by Underwriters' Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

ESPAÑOL Manual de Instrucciónes

Bienvenido al mundo SANYO

Gracías por comprar un Televisor a Color Sanyo. Usted hizo una excelente selección por *Funcionamiento, Estilo, Confiabilidad,* y *Precio*. El TV esta diseñado con instrucciones de fácil ajuste y operación en pantalla."Lea este manual antes ensamblar (o usar) este producto." **¿ Necesita ayuda? Visite nuestro sitio en internet en www.sanyoctv.com o llame sin costo al 1-800-877-5032.**



"Como un Asociado de ENERGY STAR®," Sanyo Manufacturing Corporation, ha determinado que este producto cumple con los lineamientos en eficiencia energética de ENERGY STAR®.

CONTENIDO

PRECAUCION RIESGO DE TOQUE ELECTRICO NO ABRIR!	ESTE SIMBOLO INDICA QUE VOLTAJES PELIGROSOS QUE CONSTITUYEN UN RIESGO DE TOQUE ELECTRICO ESTAN PRESENTES DENTRO DE ESTA UNIDAD.
PRECAUCION : PARA REDUCIR EL RIESGO DE TOQUE ELECTRICO, NO QUITE LA CUBIERTA (O LA TAPA TRASERA). NO HAY PARTES ADENTRO QUE LAS PUEDA REPARAR EL USUARIO. REFIERASE A PERSONAL CALIFICADO PARA REPARAR EL APARATO.	ESTE SIMBOLO INDICA QUE HAY INSTRUCCIONES IMPORTANTES DE OPERACION Y MANTENIMIENTO EN LA LITERATURA QUE SE ANEXA A ESTA UNIDAD. 

ADVERTENCIA : PARA REDUCIR EL RIESGO DE FUEGO O TOQUE ELECTRICO, NO EXPONGA ESTE APARATO A LLUVIA O HUMEDAD.

IMPORTANTES MEDIDAS DE SEGURIDAD

PRECAUCION : POR FAVOR SIGA TODAS LAS ADVERTENCIAS EN EL PRODUCTO Y EN LAS INSTRUCCIONES DE OPERACION. ANTES DE OPERAR EL PRODUCTO, POR FAVOR LEA TODAS LAS INSTRUCCIONES DE OPERACION Y SEGURIDAD. GUARDE ESTA LITERATURA PARA SU REFERENCIA. ***Siga todas las instrucciones. . .***

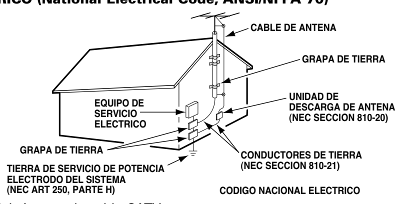
Colocando el aparato

1. No coloque su aparato en carrito, pedestal, anaquel o mesa que sean inestables. Heridas serias a un individuo, y avería al aparato, pueden resultar si este cae. Su vendedor puede recomendar carritos y pedestales o anaqueles e instrucciones para montaje en la pared. Una combinación de aparato y carrito deberá de ser movida con cuidado. Paradas rápidas, fuerza excesiva, y superficies irregulares pueda causar que la combinación de aparato y carrito se volteen y caigan.
2. Las ranuras y aperturas en el gabinete y en la parte trasera e inferior fueron provistas para ventilación del aparato. Para asegurar una operación confiable del aparato y protejerlo de sobrecalentamiento, estas aperturas no deberán de ser tapadas o cubiertas. Las aperturas nunca deberán de ser cubiertas con un trapo u otro material, y las aperturas de la parte inferior no deberán de ser tapadas poniendo la unidad en una cama, sofá, alfombra, u otra superficie similar. Este aparato nunca deberá de ser puesto cerca o sobre radiadores de calor. Este aparato nunca deberá de ser puesto en instalaciones tales como libreros a no ser que haya una adequada ventilación en tales instalaciones.
3. No exponga el aparato a lluvia o a uso cerca de agua . . . por ejemplo, cerca a una bañera, una alberca, un lavabo, en un sótano húmedo, etc.

Conectando la Antena Externa

PROTECCION EN CONTRA DE RAYOS ELECTRICOS PARA SU ANTENA Y APARATO DE ACUERDO A LAS INSTRUCCIONES DEL CODIGO NACIONAL ELECTRICO (EUA).

EJEMPLO DE ATERRIZAMIENTO DE ANTENA DE ACUERDO AL CODIGO NACIONAL ELECTRICO (National Electrical Code, ANSI/NFPA 70)



"Nota al instalador del sistema de cable CATV :
Este recordatorio es dado para llamar la atención del instalador del sistema de cale CATV al Articulo 820-40 del NEC que provee guias para el aterrizamiento adecuado y, en particular, especifica que la tierra del cable deberá de estar conectada al sistema de tierra del edificio, tan cercano al punto de entrada del cable como sea practico."

4. Si una antena exterior es conectada al receptor, asegúrese que el sistema de antena esté aterrizado para proveer alguna protección en contra de impulsos de voltaje y la acumulación de cargas estáticas. El articulo 810 del código nacional eléctrico de los Estados Unidos de América (National Electrical Code, ANSI/NFPA 70), provee información con respecto al aterrizamiento correcto del mástil y la estructura de soporte, el aterrizamiento del alambre a la antena en una unidad de descarga, el tamaño de los conductores de aterrizamiento, la localización de la unidad de descarga, conexión a los electrodos de aterrizamiento, y requerimientos para los electrodos de aterrizamiento.

   Una antena exterior no deberá de ser localizada en la vecindad de líneas de potencia que pasen por encima de otros circuitos de luz eléctrica o de potencia, o en donde pueda caer sobre tales líneas de potencia o circuitos. Cuando se instale un sistema de antena externa, se debe de tener cuidado extremo en no tocar tales líneas de potencia o circuitos ya que contacto con ellos puede llegar a ser fatal.

Conectando el cordon de potencia

5. Este producto debe ser operado solamente con el tipo de cordón de potencia indicado en la etiqueta. Si usted no esta seguro del tipo de alimentación en su casa, consulte a su distribuidor de este producto, o a la compañía de suministro eléctrico. Este producto esta equipado con cordón de potencia polarizado (una de las navajas de la clavija es más ancha, que la otra). Esta clavija debe de ajustar en el toma corriente de una manera solamente. Esta característica es una medida de seguridad. Si usted no puede insertar la clavija totalmente en el toma corriente, trate invirtiendo la clavija.Si la clavija continua floja en el toma corriente, llame a su electricista, para reemplazar su toma corriente obsoleto. No deshabilite el propósito de seguridad de esta clavija polarizada. No sobre cargue los toma corrientes de pared, extensiones eléctricas, o receptáculos integrales, ya que esta condición puede resultar en un riesgo de fuego o descarga eléctrica.
6. Los cordones de potencia deben ser direccionados de tal manera que no puedan ser pisados o dañados con enseres colocados a un lado arriba del cordón de potencia. ponga una particular atención a los cordones de potencia y clavijas, receptáculos de toma corrientes, y el punto donde ellos salen del producto.

Limpieza

7. Antes de limpiar, desconecte la unidad del receptáculo de la pared. No aplique limpiadores líquidos o en aerosol directamente a la unidad. Utilice un trapo seco para limpiar.

Servicio y Reparación

8. Desconecte el aparato del receptáculo de pared y refiera servicio a personal de servicio eléctrico calificado bajo las siguientes condiciones :
   A Si el cordón de potencia o el conector están averiados o raídos.
   B. Si líquido ha sido derramado en el aparato.
   C. Si el aparato ha sido expuesto a lluvia o agua.
   D. Si el aparato ha sido tirado o el gabinete a sido averiado.
   E. Si el aparato exhibe un cambio perceptible en funcionamiento.
   F. Si el aparato no opera normalmente siguiendo las instrucciones de operación, ajuste solamente aquellos controles que han sido cubiertos en las instrucciones de operación. Ajuste impropio de otros controles puede resultar en avería al aparato y posiblemente requiera de trabajo extensivo por un técnico calificado para restaurar el aparato a su operación normal.
9. Cuando se termine cualquier servicio o reparación, requiera del técnico de servicio confirmación de que solo Partes Autorizadas de Remplazo de Fabrica que tengan las mismas características que las partes originales hayan sido usadas, y que verificaciones de seguridad rutinarias hayan sido llevadas a cabo para determinar que el aparato se encuentra en condiciones seguras de operación. Substituciones no autorizadas pueden resultar en fuego, toque eléctrico u otros peligros.
10. Nunca adicione accesorios que no han sido especificamente diseñados para uso con este aparato.
11. Para protección adicional durante una tormenta eléctrica, o cuando el aparato es dejado sin atención ni uso durante largos periódos de tiempo, desconéctelo del receptáculo de la pared y desconecte la antena. Esto evitará daños al aparato debido a rayos o a cambios bruscos en el voltaje de línea.
12. Nunca introduzca ningún tipo de objetos a través de las ranuras, ya que el contacto con componentes de alto voltaje pueden poner en corto dichas componentes que pueden resultar en incendios o descargas eléctricas, Nunca derrame líquidos o cualquier tipo de productos.

ESPECIFICACIONES

- Menú en Pantalla Trilingüe
- Búsqueda Automática de Canales
- Apagado Automático
- Transmisión Captada / Quikcap
- Filtro Digital de 3-Líneas de tipo Peine
- Relacion Imagen
- Controles digitales de Imagen desplegados en Pantalla
- MTS sonido estereofónico/ dbx® /sonido SAP
- Tonos de piel por ajuste Automático
- Resaltar Color
- Ajustes de Fabrica para Imagen/Sonido
- Frontal Ambient Sonido
- Tono
- V-Guide (Control Paternal)
- Imagen dentro de Imagen (PIP)
- Entrada de Audio/Video Componente 480i
- Entradas de Audio/ Video (2 juegos de entradas posteriores)
- Salidas de Audio (Fijo)
- Entrada de S-Video
- Cronómetro para Dormir (3 horas)
- Reajuste de TV
- **Sistema de sintonía de 181 canales**
  VHF Canales 2-13
  UHF Canales 14-69
  Cable TV (CATV) 1, 14-125
- **Sintonía Fina Automática**
  VHF y Canales de Cable
- **Control Remoto Multimedia-Luminoso, VCR/ TV/CABLE/DVD/SAT/AUX, Teclas de operaciones básicas grandes que se iluminan en la Oscuridad**

0~9 Selección de Canales Numerados
Búsqueda de Canales

Volume	Mute
Power	Recall
Display	Sleep
Caption	Reset
Menu	V-Guide
Input	VCR/DVD teclas
Enter	PIP teclas

dbx® es una marca registrada de Carillon Electronics Corporation

CARACTERÍSTICAS

TAMAÑO DEL TUBO DE IMAGEN
(Medido Diagonalmente) 31-pulgadas

RESOLUCIÓN DE IMAGEN . . . . 330 Líneas

Entrada de Video . . . . 700 Líneas

ENTRADA . . . . UHF/VHF/CATV 75Ω

FRECUENCIA DE OPERACION . . . . 60Hz.

TENSION DE ALIMENTACION 120

V~CONSUMO DE CORRIENTE . . . . 89 watts

DIMENSIÓN HORIZONTAL (Ancho) . . . . 29.7 in. (754mm)

DIMENSIÓN VERTICAL (Alto) . . . . 28.8 in. (832mm)

DIMENSIÓN EN PROFUNDIDAD (Grosor) . . . . . 21.2 in. (538mm)

PESO (APROX.) . . . . 106.4 lbs. (48.3 Kg.)

SONIDO (2 Bocinas) . . . . Tamaño: 10 cm

AMPLIFICADOR . . . . Interon 1W/canal

ENTRADAS DE AV . . . . Entrada de Video (2)
Entrada de Audio (2-R/L)
S-Video

ENTRADAS DE COMPONENT 480I

AUDIO/ VIDEO . . . . Entrada Digital
(Y, Pb, Pr – R/L)

SALIDAS DE AUDIO . . . . Salida de Audio
Fijo (R/L) (RCA Connectors)

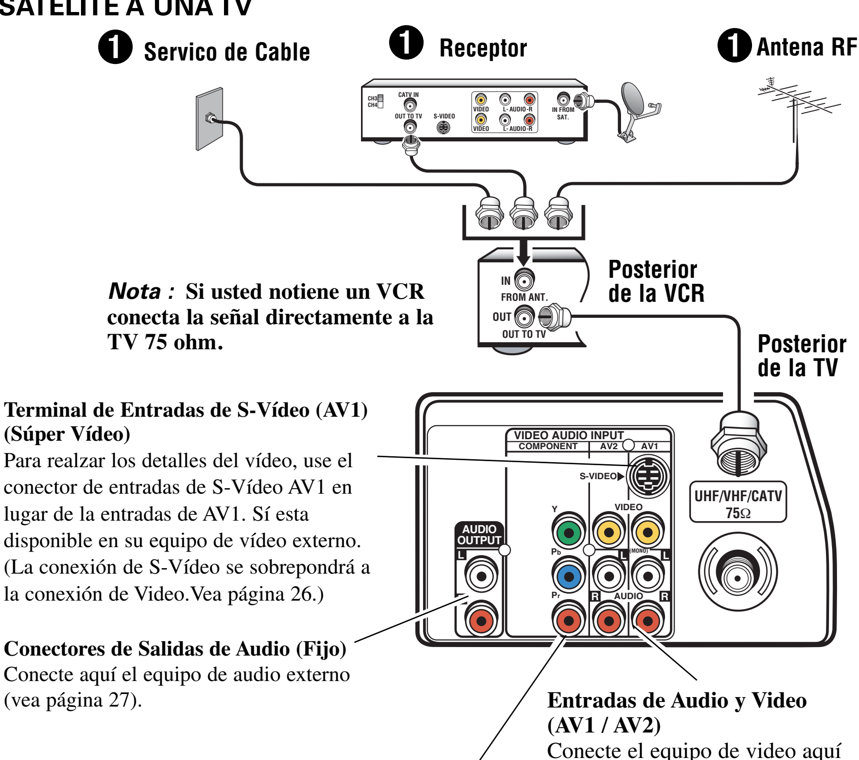
PRECAUCION : Las Regulaciones de FCC declaran, que las modificaciones no apropiadas o cambios no autorizados a esta unidad, pueden anular la autoridad del usuario para operar la unidad.

AJUSTES BÁSICOS Y CONEXIÓNES

AJUSTES INICIALES

1. Instale las baterias en el control remoto, ver página 28.
2. Conecte la señal, ver abajo.
3. Conecte el cable de AC.
4. Presione la tecla de **POWER** para activar el TV.
5. Siga en instrucciones de pantalla.

CONECTANDO EL SERVICIO DE CABLE, ANTENA RF, RECEPTOR DE SATELITE A UNA TV



Nota : **Si usted notiene un VCR conecta la señal directamente a la TV 75 ohm.**

Terminal de Entradas de S-Vídeo (AV1) (Súper Vídeo)
Para realzar los detalles del vídeo, use el conector de entradas de S-Vídeo AV1 en lugar de la entradas de AV1. Sí esta disponible en su equipo de vídeo externo. (La conexión de S-Vídeo se sobrepondrá a la conexión de Video. Vea página 26.)

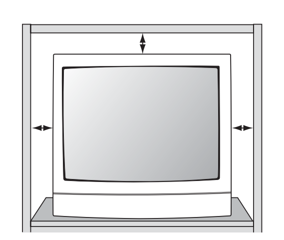
Conectores de Salidas de Audio (Fijo)
Conecte aquí el equipo de audio externo (vea página 27).

Entradas de Audio y Video (AV1 / AV2)
Conecte el equipo de video aquí (vea páginas 26 ~ 27).
Nota : La conexión de S-Vídeo se sobrepondrá a la conexión de Video (AV1).

Entradas Componente 480i Audio/Video (Y, Pb, Pr) (Component2)
Conecte aquí otro equipo externo de video (vea página 27).

COLOCANDO LA TV

No coloque la TV en una área confinada. Deje espacio suficiente para tener una buena circulación de aire en los componentes electrónicos.





- *El TV seleccionará el modo correcto de Antena, de acuerdo al tipo de señal que Ud. conectó.*
- *El TV se apagará automáticamente despuès de 15 minutos, si no hay recepción de señal (si la estación de cable o la estación de TV no esta transmitiendo).*

Excepciones*—Cuando el modo de Video este seleccionado, el TV no se apagará automáticamente cuando la señal de recepción ha sido detenida por 15 minutos.*

- *Si Ud. mueve el TV a un nuevo lugar, presione la tecla de RESET dos veces después de haber conectado el cable de señal, y encienda la TV.*

¿ Necesita ayuda?
Visite nuestro sitio en internet
www.sanyoctv.com
o Llame 1-800-877-5032

NOTA CONCESIÓN DE CATV : Compañas de cable, como servicios públicos, son concesionados por las autoridades de los gobiernos locales. Para recibir programas de cable, cada equipo debe de ser capaz de recibir canales de cable, para recibir este servicio, el consumidor debe de suscribirse a una compañía de cable.

USANDO LAS ENTRADAS DE AUDIO/VIDEO

Consejos Rápidos

- *Asegurese que todos los conectores esten correctamente asentados en las entradas.*
- *Siempre combine los cables de acuerdo a los colores: ROJO para el audio del lado derecho, BLANCO para el audio del lado izquierdo, y AMARILLO para video.*
- *Una pantalla de color azul con la palabra VIDEO1 o VIDEO2 desplegada, significa que el modo de Video esta seleccionado, pero la señal no ha sido detectada en el conector de Video.*

¿ Necesita ayuda?
Visite nuestro sitio en internet
www.sanyoctv.com
o Llame 1-800-877-5032

CONECTANDO UNA VCR O REPRODUCTOR DE DVD

Apague la TV y los equipos externos antes de conectar los cables. (Los cables no son suministrados con la TV.)

❶ Conecte la salidas de Audio Video de la VCR, DVD, o otros euipos' a las entradas de la TV Audio Video.

Para VCR monofónicas (una salida de Audio) conecte la salida de la VCR a la entrada (L) de la TV.

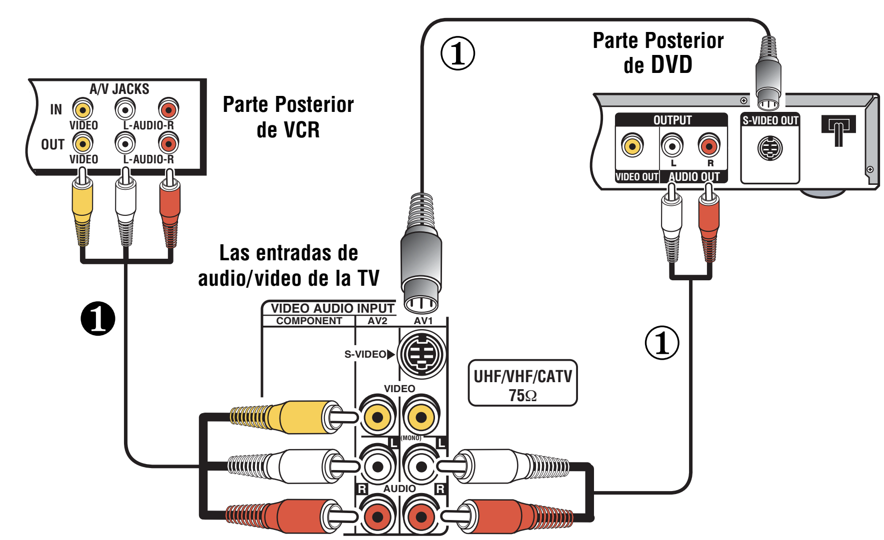
① *Optativo*

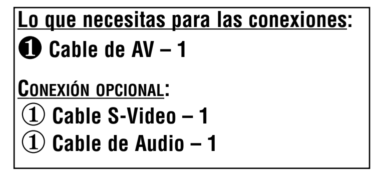
Conecte las salidas de S-Video del VRC, DVD, DSS, o otros equipos' a las entradas de S-Video de la TV.

Nota: Usando las entradas de S-Video se cancela las entradas de Video (AV1).

❷ Presione **POWER** para encender la TV. Además Encienda el equipo externo.

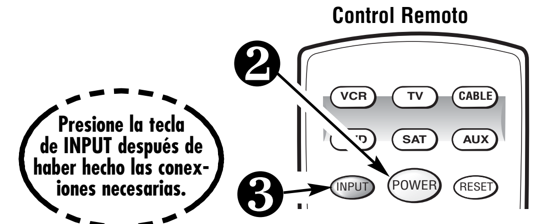
❸ Presione **INPUT** para seleccionar de VIDEO1 o VIDEO2.





Lo que necesitas para las conexiones:
❶ Cable de AV – 1

CONEXIÓN OPCIONAL:
① Cable S-Video – 1
① Cable de Audio – 1



UTILIZANDO LAS ENTRADAS DE COMPONENTE DE AUDIO/VIDEO

CONECTANDO UNA REPRODUCTOR DE DVD U OTROS EQUIPOS EXTERNOS A LA TV

Apague la TV y los equipos externos antes de conectar los cables. (Los cables no son suministrados con la TV.)

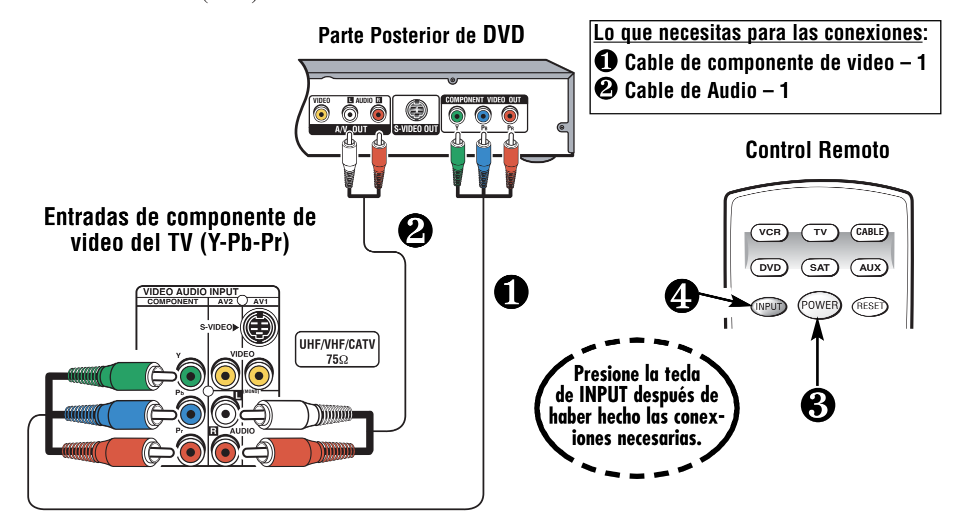
❶ Conecte el equipo de DVD u otro equipo con salidas de Componente de video a las entrada de componente de video del TV (Y-Pb-Pr).

❷ Conecte la salida del Audio del DVD a las entradas L/R de componente de Audio del TV.

❸ Presione **POWER** para encender la TV. Además Encienda el equipo externo.

❹ Presione **INPUT** para seleccionar de COMPONENTE2.

Nota: La salida de componente del DVD debe de estar seleccionada en modo entrelazado (480i).



Consejos Rápidos

- *Ud. es capaz de usar el control Reproductor de DVD remoto para operar su DVD (Ver páginas 30 ~ 32.)*
- *Una pantalla de color azul con la palabra* COMPONENTE2 *desplegada, significa que el modo de Video esta seleccionado, pero la señal no ha sido detectada en el conector de Video.*
- *Coloque su televisor al menos a 60 cm de las bocinas de un sistema estéreo. Los magnetos en dichas bocinas pueden afectar la calidad de pureza de la imagen.*

¿ Necesita ayuda?
Visite nuestro sitio en internet
www.sanyoctv.com
o Llame 1-800-877-5032

USANDO LA SALIDA DE AUDIO

CONECTE UN AMPLIFICADOR ESTÉREO A LAS SALIDAS DE AV

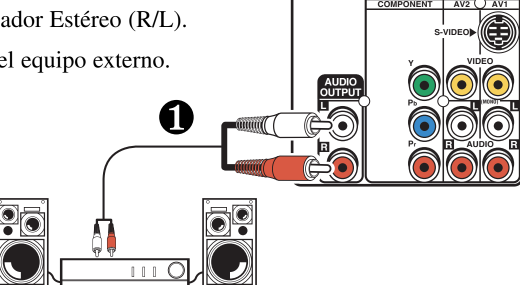
❶ Conecte la Salida de Audio (R/L) a la entrada del Amplificador Estéreo (R/L).

❷ Presione **POWER** para encender la TV. Además Encienda el equipo externo.

Notas : No conecte bocinas externas directamente a la TV.

Lo que necesitas para las conexiones:
❶ Cable de Audio – 1

Parte Posterior de TV



Amplificado Estéreo

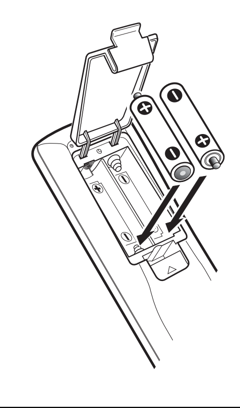
USANDO EL CONTROL REMOTO MULTIMEDIA

Consejos Rápidos

- *Asegúrese que las baterías esten instaladas correctamente.*
- *Apunte el control remoto hacía el equipo que Ud. quiere operar. Objetos entre el control remoto y el equipo, pueden causar un mal funcionamiento del control remoto.*
- *Sí el control remoto no funciona: presione la tecla de* TV *(ver artículo 1).*
- *El control remoto debe de ser programado antes de operar su VCR, su Decodificador de Cable, Reproductor de DVD o receptor de Satélite. (Ver páginas 30~32.)*
- *No puede seleccionar un canal con las teclas numeradas. Presione "0" antecediendo a los números del 1~9. Ejemplo: Canal "05."*
- *Ajustando el nivel de volumen: La flecha de parpadeante hacia el lado derecho ▶, indica que el volumen esta aumentando. La flecha parpadeante hacia la izquierda ◀ indica que el volumen esta disminuyendo.*

¿ Necesita ayuda?
Visite nuestro sitio en internet
www.sanyoctv.com
o Llame 1-800-877-5032

Opere su VCR, TV, Decodificador de Cable, Reproductor de DVD, y Receptor de Satélite. Programación simplificada de acuerdo con las instrucciones de la páginas 30 ~ 32.



INSTALACIÓN DE BATERÍAS (2 AA no incluídas)

1. Quite la cubierta de las baterías, presionando la lengüeta e inclinando la cubierta hacía adelante. Inserte las baterías. Asegúrese que las marcas ⊕ / ⊖ correspondan con los signos de las baterías, y estas coincidan con las marcas internas del control remoto.
2. Coloque la cubierta de las baterías. *¡El control remoto esta listo!*

Notas :

– No mezclar baterías viejas con nuevas o mezclar diferentes tipos de baterías a la vez.

– Quite las pilas si el control remote no sera usado por más de un mes. Las pilas débiles puden derramarse y causar daños al control remoto.

NOTA IMPORTANTE : Las baterías descargadas deben de ser recicladas o deshechadas adecuadamente, de acuerdo con los reglamentos aplicables. Para más información, contacte a sus Autoridades Locales para el manejo de Deshechos Sólidos.

TECLAS DEL CONTROL REMOTO

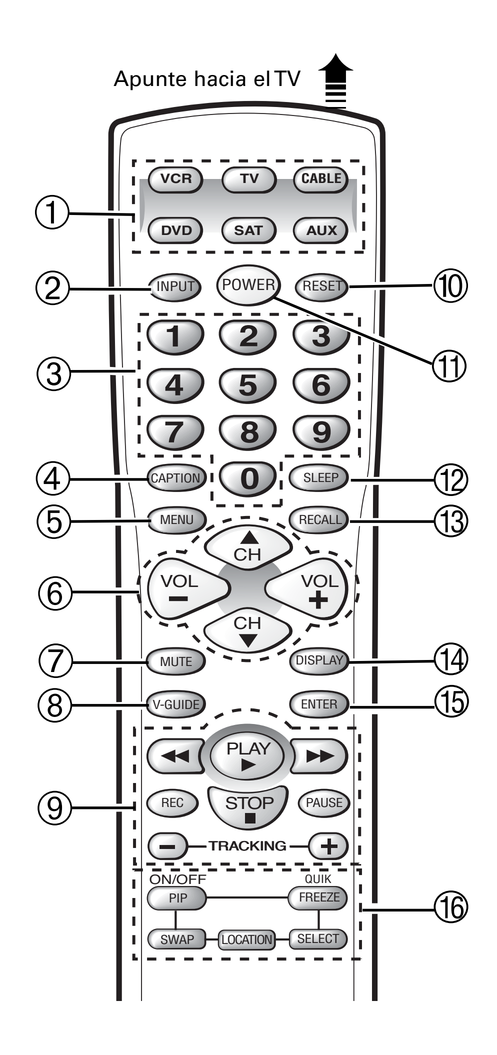
① **Teclas de Modo—**Use estas teclas para programar el control remoto y para seleccionar el modo de operación (*VCR*, *TV*, *CABLE, DVD, SAT,* o *AUX*).
Para operar su...VCR—Presione la tecla de **VCR**; TV—Presione la tecla de **TV**; Reproductor DVD—Presione la tecla de **DVD**; Decodificador de Cable—Presione la tecla de **CABLE**; y Receptor de Satélite—Presione la tecla de **SAT**.
Nota : **Asegurese de mantener presionada la tecla de modo mientras ingresa el número de código, ver página 30**.

② **Tecla de INPUT —**Presione para seleccionar la fuente del programa que va a ser desplegado en la pantalla: Señal TV o señal del equipo de video que ha sido conectado a las entradas de AV. En el modo de VCR, esta tecla funciona como la tecla de TV/VCR de una VCR.

③ **Teclas Numeradas—**Dos teclas deben de ser presionadas para seleccionar un canal. *Ejemplo* : Presione **0** y después **6**, para seleccionar el canal 6. Para canales de cable del 100 hasta el 125, presione y mantenga así la tecla del número **1** hasta que el C1–– aparezca.

④ **Tecla de CAPTION—**Vea página 35.

⑤ **Tecla de MENU—**Use esta tecla, junto con las teclas de navegación, use **▲/▼** y **– / +** para ajustar las funciones del sistema de menú en pantalla (vea páginas 33 ~ 34).



⑥ **Teclas de búsqueda de Canales (▲/▼) y de Volumen (– / +)**—Presione para buscar a través de los canales en memoria y para ajustar el volumen.

⑦ **Tecla de MUTE**—Presione una vez para apagar el volumen y presione nuevamente para restaurarlo. *Nota :* Cuando se usen las salidas de audio, esta tecla no enmudecerá el sonido.

⑧ **V-Guide**—Vea páginas 39 ~ 40.

⑨ **Teclas para VCR / DVD**—Estas teclas controlan el DVD y/o Funciones de la VCR Avance hacia adelante (▸▸), Rebobinado (◂◂), Reproducción (▸), Grabación (REC), la funciones de Detener (Stop ■), Pistas (Tracking – /+), y Pausa (Pause) de su VCR.

⑩ **Tecla de Reajuste (RESET)**—Presione esta tecla dos veces para llamar a los ajustes de fábrica. La TV inicializará automáticamente la búsqueda de canales, y eliminará todos los ajustes hechos por el usuario. Estas funciones se reajustarán automáticamente :

- Se reajusta imagen/sonido : Color, Tinte,Contraste, Brillo, Nitidez, Resaltar Color, Tono, y Ambiente Sonido
- Se restablecen los Canales en Memoria
- Se ajusta el Audio a Estéreo
- Se desactiva la función Subtítulos
- Se desactiva la función de Guía-V
- Relación Imagen a 4:3 (normal)
- Se desactiva la función de Imagen sobre Imagen
- Se cambia el lenguaje menu a Inglés
- Cronometro para Dormir (Si fue previamente ajustado)
- Se Video la TV (Si se ha seleccionado previamente)

Si quiere personalizar los ajustes, estos pueden ser hechos nuevamente usando el menú de opciones.

⑪ **Tecla de POWER**—Presione esta tecla para encender o apagar la TV.

⑫ **Tecla de Sleep** —Presione esta tecla y posteriormente la tecla de "**0**" para ajustar el Cronometro para dormir. El lapso de tiempo deseado puede ser ajustado de 30 minutos a 3 horas. El Cronometro para Dormir apagará la TV automáticamente. *Nota:* La función de cronometro para dormir se cancela si la TV es desconectada, o ocurre una falla en el suministro eléctrico.

⑬ **Tecla de RECALL**—Seleccione un canal, entonces seleccione otro usando las teclas numeradas. Presione **Recall,** para hacer el cambio entre estos canales.

⑭ **Tecla de DISPLAY**—Presione una vez para que aparezca el desplegado del canal. Presione dos veces para que el desplegado aparezca nuevamente. Presione nuevamente para eliminarlo.

⑮ **Tecla ENTER**—Use esta tecla para activar la selección que se haya hecho del menú a su aparato de DVD, Decodificador de Cable, Receptor de Satélite o Videocasetera.

⑯ **Teclas de PIP**—Vea páginas 36 ~ 38.

PROGRAMANDO EL CONTROL REMOTO

❶ Encuentre el código de la marca de la video casetera, el Decodificador de Cable, el reproductores de DVD, et el receptore de satélite en las tablas de a la derecha y la página 31.

❷ Mantenga presionada la tecla de modo de **VCR**, **CABLE**, **DVD**, **SAT** (Satélite), o **AUX** (Auxiliar) al mismo tiempo que ingresa los tres dígitos del número código. Después de esto, libere la tecla de modo.

Si el código fue aceptado, la tecla de modo se iluminará 5 veces después de que fue liberada. Si se ingreso un código equivocado, la tecla de modo *no* se iluminará. Verifique el número de código y repita el paso 2.

El modo *VCR*, *CABLE*, *DVD*, o *SA*T (Satélite) aceptará únicamente códigos de tipo.

El modo *AUX* aceptará tipos de código para DVD's, Decodificadores de Cable o una segunda video casetera, pero únicamente un código a la vez.

Lleve a cabo los pasos 1 y 2 para cada tipo de equipo que tenga. Después de ingresar cada número de código, verifique la operación su operación presionando las teclas de **POWER** y/o **CHANNEL**. Si estas teclas operan tu equipo, entonces probablemente el número de código fue el correcto. Si no, regrese al paso 2 y escoja otro código, si esta disponible.

Después de haber programado el control remoto y confirmado su operación, escriba los códigos en los espacios que están abajo para fácil referencia.

Código de VCR :			
Código de Decodificador de Cable :			
Código de Reproductore de DVD :			
Código del Receptore de Satélite :			
Código del Aparato Auxiliar : ____ ANOTE EL APARATO QUE CORRESPONDE AQUÍ.			

CARTA DE CÓDIGOS PARA REPRODUCTORES DE DVD

MARCA	CÓDIGO NO.	MARCA	CÓDIGO NO.
Akai	529	Oritron	522
Apex	525, 527, 528, 523	Panasonic	501, 518
Daewoo	529	Philips	508, 502
Denon	501, 520	Pioneer	511, 505, 518
Emerson	521, 524, 527	Proscan	504
Fisher	500	RCA	504
GE	504	Samsung	512
Harman/Kardon	513	Sanyo	500, 526
Hitachi	530	Sharp	531, 517
JVC	515, 510	Sherwood	519
Kenwood	507	Sony	506
Magnavox	508, 502	Sylvania	524
Marantz	508	Symphonic	524
Mitsubishi	503	Technics	501
Onkyo	516, 502	Theta Digital	511
Optimus	511	Toshiba	502, 526
Orion	526	Yamaha	501, 509
		Zenith	521, 514, 502

CARTA DE CÓDIGOS PARA RECEPTORES DE SATÉLITE

MARCA	CÓDIGO NO.	MARCA	CÓDIGO NO.
AlphaStar	431	Next Level	415
Echostar	432, 410, 416	Optimus	430
ExpressVU	432	Panasonic	428, 400
Fujitsu	404	Philips	429, 430
GE	426, 436, 437, 423	Primestar	425, 427
General Instruments	425, 427, 415, 435, 405	Proscan	426, 436, 437, 423
Hitachi	407, 421	Radio Shack	415
HTS	432	RCA	426, 436, 437, 423
Hughes	407	Sony	420
Janeil	404	Star Choice	415, 435
Jerrold	425, 427	Toshiba	422, 405
JVC	432	Uniden	429, 430, 406, 409, 412
Magnavox	429, 430	Video Pall	404
Memorex	430	Viewstar	418
		Zenith	434, 404

CARTA DE CÓDIGOS PARA VCR

MARCA	CÓDIGO NO.
Admiral	234, 239, 243, 247, 224, 229, 222, 215
Adventura	228
Aiko	240, 205
Aiwa	228, 217
Akai	209, 215
America Action	205, 240
America High	232
Bell & Howell	203, 201
Broksonic	234, 243, 247, 227, 204
Candle	233, 240, 248, 222, 223, 204, 205, 208, 211, 216, 217
Canon	232, 216
CCE	240, 205
Cineral	240, 205
Citizen	233, 240, 222, 205, 211, 216, 217
Craig	223, 235, 202, 219
Craver	204
Curtis Mathes	232, 236, 238, 248, 222, 228, 208, 209, 211, 216, 217
Daewoo	205, 240, 211
Daytron	240, 205
Denon	221, 230
Dynatech	228
Emerex	214
Emerson	228, 243, 234, 236, 240, 247, 223, 227, 201, 203, 204, 205, 206, 210, 211, 217
Fisher	200, 201, 202, 203, 211
Fuji	232
Funai	228, 233, 217
GE	222, 246, 248, 232,236, 239, 226, 229, 224, 208, 212, 213, 216
Goldstar	223, 238, 248, 226, 206, 208, 215, 217
Go Video	248, 249, 208, 212, 213, 219
Gradiente	228
Garrard	228
Harley Davidson	228
Headquarter	200
Hitachi	228, 230, 246, 226, 221, 222, 209, 217
Hughes	221, 230
JBL	237
Jensen	209
JVC	220, 225, 238, 226, 201, 203, 209, 221, 230
KEC	240, 205
Kenwood	220, 225, 226, 238, 201, 203, 209
Kodak	232
Lloyd's	228
Logik	235, 219
LXI	232, 221, 228, 230, 201, 202, 203, 206, 211, 217
Magnasonic	223, 235, 240, 205, 219
Magnavox	204, 232, 235, 228, 211, 216, 217, 219, 220, 225
Marta	206
Matsushita	232, 216
MEI	232
Memorex	227, 232, 239, 243, 245, 223, 224, 228, 229, 230, 221, 200, 201, 202, 203, 206, 215
Minolta	221, 230
Mitsubishi	231, 239, 244, 224, 226, 229, 210, 223
Motorola	232, 239, 229, 224
MTC	228, 235, 217, 219
Multitech	228, 217
NEC	238, 208, 223, 226, 201, 203, 206, 209, 215, 217, 248
Olympus	232
Optimus	239, 245, 248, 223, 224, 229, 201, 203, 208
Orion	243, 227, 234, 240, 205, 206, 210, 211
Panasonic	245, 232, 235, 236, 223, 202, 211, 216, 219
Penny	230, 232, 235, 248, 221, 223, 208, 211, 216, 219
Pentax	238, 221, 230
Philco	204, 232, 243, 228, 216, 217
Philips	204, 232, 228, 211, 216, 217
Pioneer	242, 204, 207, 220, 225
Proscan	222, 241, 246, 230, 236, 221, 226
Proton	219, 235,
Pulsar	233, 240, 248, 205, 208, 216, 217
Quarter	200
Quartz	200
Quasar	245, 232, 236, 223, 216
Radio Shack	228, 245, 223
RCA	222, 241, 246, 248, 230, 232, 236, 239, 224,226, 229, 221, 201, 203, 207, 208, 210, 216
Realistic	232, 239, 240, 248, 223, 224, 228, 229 200, 201, 202, 203, 206, 208, 216, 217
Samsung	248, 208, 233, 211, 217, 222
Samtron	208, 248
Sansui	243, 226, 228, 235, 209, 219, 220, 225
Sanky	239, 229, 224
Sanyo	200, 201, 202, 203
Scott	234, 247, 223, 227, 211
Sears	232, 223, 228, 230, 221, 200, 201, 202, 203, 206, 211, 216, 217
Semp	211
Shintom	219, 227, 235
Sharp	239, 229, 224
Signature	228, 217, 239, 229, 224, 200
Sony	214, 218, 232, 237, 226, 228
STS	221, 230
Sylvania	228, 232, 244, 204, 216, 217
Symphonic	228, 217, 233, 226, 202
Yamaha	238, 226
Tatung	226, 209
Teac	228, 209, 214, 217
Technics	232
Teknika	232, 223, 228, 216, 217
Toshiba	211, 240, 244, 202, 205, 210
Tomas	228, 217
Vector	211
Video Concept	211
Wards	230, 232, 239, 248, 223, 224, 228, 229, 221, 202, 204, 208, 211, 217
White	
Westinghouse	240, 243, 205
XR-1000	228, 232
Zenith	206, 215, 237, 243,220, 223, 225, 228, 222

CARTA DE CÓDIGOS PARA DECODIFICADOR DE CABLE

MARCA	CÓDIGO NO.
ABC	312, 304, 306, 308,309, 311, 313, 314, 318, 319, 321, 322, 323, 324, 327, 329
AIM	321
Archer	334
Bell & Howell	313, 314, 329
Contec	305, 302, 307, 308,309, 311, 318, 319, 320, 322, 323, 324, 327
CPI	319, 308, 309, 311, 322, 323
Diamond	320
Eagle	313, 314, 329
Emerson	334
Gemini	334
General Instruments	303, 300, 308, 309, 311, 319, 320,321, 322, 323
Goldstar	312
Goodmind	334
Hamlin	330, 320
Hitachi	309, 308, 311, 319, 322, 323
Hytex	318
Jerrold	300, 303, 308, 309, 311, 313, 314, 319, 320, 321, 322, 323, 329
Magnavox	325, 329, 301, 308, 309, 311, 313, 314, 319, 322, 323
Memorex	331, 332, 313, 314, 329
Motorola	338, 303, 300, 308, 309, 311, 319, 320, 321, 322, 323
Movie Time	306, 310, 314, 313, 329
Northcoast	316
NSC	305, 306, 314, 313, 329
Oak	305, 318, 320
Paragon	331, 313, 314, 329
Panasonic	331, 324, 302, 307, 317, 327
Philips	325, 329, 301, 308, 309, 311, 313, 314, 319, 322, 323
Pioneer	312, 327, 335, 333, 317, 324
Proscan	327
Quasar	331, 302, 307, 317
RCA	328, 302, 307
Regal	330, 307, 320
Rembrandt	305, 309, 308, 311, 319, 322, 323
Radio Shack	334
Samsung	312, 310
Scientific Atlanta	335, 327, 307, 324
Signal	310
Signature	300, 309, 308, 311, 319, 321, 322, 323
Sprucer	302, 307, 316
Starcom	332, 309, 308, 311, 319, 321, 322, 323
Stargate	309, 310, 311, 321, 322, 334
Teleview	310
Tocom	300, 303, 305, 304, 306, 307
Toshiba	331, 309, 308, 311, 316, 319, 322, 323
Unika	314, 313, 329
United Artists	318
United Cable	309, 308, 311, 319, 322, 323
U.S. Electronics	309, 308, 311, 319, 322, 323, 324, 327
Viewstar	326, 313, 315, 314, 329
Wards	321, 322, 308, 309, 311, 319, 323
Warner	312
Zenith	331, 336, 337, 308, 309, 311, 316, 319, 322, 323, 324, 327

CARTA DE TECLAS DE FUNCIONES DEL CONTROL REMOTO MULTIMEDIA

TECLAS DE REMOTO	MODO DE TV	MODO DE VCR	MODO DE DECODIFICADOR DE CABLE	MODO DE DVD	MODO DE SATÉLITE
POWER	Encendido / Apagado	Encendido / Apagado	Encendido / Apagado	Encendido / Apagado	Encendido / Apagado
TECLAS NUMERADAS (0 ~ 9)	Usadas para Seleccionar Canales	Usadas para Seleccionar Canales	Usadas para Seleccionar Canales	No Funciona	Usadas para Seleccionar Canales
INPUT	Seleccionar TV/modo de Vídeo	Seleccionar TV/VCR mode	No Funciona	No Funciona	Seleccionar TV/DSS mode
RECALL	Canal seleccionado previamente	Canal seleccionado previamente	Canal seleccionado previamente	Se repite la selección	Canal seleccionado previamente
MENU	Despliega el Menú de Ajuste	Despliega el Menú de Ajuste	Despliega el Menú de Ajuste	Despliega el Menú de Ajuste	Despliega el Menú de Ajuste
CANAL ▲ (ARRIBA)	Canal/Cursor* Arriba	Canal/Cursor* Arriba	Canal/Cursor* Arriba	Siguiente/Cursor* Arriba	Canal/Cursor* Arriba
CANAL ▼ (ABAJO)	Canal/Cursor* Abajo	Canal/Cursor* Abajo	Canal/Cursor* Abajo	Anterior/Cursor* Abajo	Canal/Cursor* Abajo
VOLUMEN – (ABAJO)	Audio Abajo/Cursor* Izquierda	Audio Abajo/Cursor* Izquierda	Audio Abajo/Cursor* Izquierda	Audio Abajo/Cursor* Izquierda	Audio Abajo/Cursor* Izquierda
VOLUMEN + (ARRIBA)	Audio Arriba/Cursor* Derecha	Audio Arriba/Cursor* Derecha	Audio Arriba/Cursor* Derecha	Audio Arriba/Cursor* Derecha	Audio Arriba/Cursor* Derecha
MUTE	Cambia Sondio On/Off	Cambia Sondio On/Off	Cambia Sondio On/Off	Cambia Sondio On/Off	Cambia Sondio On/Off
DISPLAY	Muestra/Quita desplegado en imagen	No Funciona	No Funciona	No Funciona	Función de Acercamiento (zoom)
RESET	Opera solamente en la TV	No Funciona	No Funciona	No Funciona	No Funciona
CAPTION	Opera solamente en la TV	No Funciona	No Funciona	Accesa Opciones de Audio	No Funciona
SLEEP	Opera solamente en la TV	No Funciona	No Funciona	No Funciona	No Funciona
ENTER	Hace la selección	Hace la selección	Hace la selección	Hace la selección	Hace la selecció
V-GUIDE	Opera solamente en la TV	No Funciona	No Funciona	No Funciona	No Funciona
PLAY (▶)	Selecciona el modo de reproducción en VCR/DVD	Selecciona el modo de reproducción en VCR	Selecciona el modo de reproducción en VCR/DVD	Selecciona el modo de reproducción en DVD	Selecciona el modo de reproducción en VCR/DVD
AVANCE RÁPIDO (▶▶)	Opera en VCR/DVD	Opera en VCR	Opera en VCR/DVD	Opera en DVD	Opera en VCR/DVD
REBOBINADO (◀◀)	Opera en VCR/DVD	Opera en VCR	Opera en VCR/DVD	Opera en DVD	Opera en VCR/DVD
STOP (■)	Se detiene la VCR/DVD	Se detiene la VCR	Se detiene la VCR/DVD	Se detiene la DVD	Se detiene la VCR/DVD
PAUSE	Se selecciona pausa en la VCR/DVD	Se selecciona pausa en la VCR	Se selecciona pausa en la VCR/DVD	Se selecciona pausa en la DVD	Se selecciona pausa en la VCR/DVD
RECORD (REC)	No Funciona	Se selecciona grabación VCR	No Funciona	No Funciona	No Funciona
PISTAS (TRACKING) –/+	Ajuste fino en la cabeza de video	Ajuste fino en la cabeza de video	Ajuste fino en la cabeza de video	Cuadro fijo, paso para Adelantar/Retrasar	Ajuste fino en la cabeza de video
TECLAS DE MODO	Presione estas tecla (VCR/TV/DVD/SAT/AUX) cuando programe el control remote multimedia y seleccione el modo de operación.				

Notas:

– Muchas de las teclas de este control remoto son multi-funcionales. Por favor consulte la tabla para la descripción genérica de las teclas y sus funciones. Consulte los manuales de operación originales para operaciones especificas de funcionamiento.

– Este control remoto no puede agregar teclas o características a su equipo. El fabricante del equipo debe de proveerlas.

– Las teclas de **CHANNEL** (▲/▼) y **VOLUME** (-/+) se convierten en teclas **CURSOR** cuando la tecla **MENU** se presiona. Este estado de operación se mantiene activo por 10 segundos después de presionar la tecla **MENU** o cualquiera de las teclas **CHANNEL** o **VOLUME**. Después de 10 segundos, esas teclas regresaran a sus funciones originales de canal y volumen.

– Algunas marcas de equipo utilizan las teclas de **CHANNEL** y **VOLUME** en lugar de teclas de **CURSOR** para navegar a través del sistema del menú. Si, después de presionar la tecla de **MENU**, las teclas de **CHANNEL** y **VOLUME** no mueven el cursor, espere 10 segundos y trate nuevamente. Si el menú desaparece de la pantalla, presione la tecla **MENU** nuevamente y espere 10 segundos antes de presionar las teclas de **CHANNEL** y **VOLUME**.

– Las operaciones que en la tabla aparecen con asterisco (*) trabajan cuando el menú es desplegado en pantalla (después de presionar la tecla de **MENU**).

– El modo *AUX* puede ser programado para operar un DVD, un Decodificador de Cable o una segunda video casetera, pero solo un aparato a la vez.